### **FACILITY NAME AND PERMIT NUMBER:**

Riner STP VA0024040

Form Approved /14/99 OMB Number 2040-008

FORM 2A

# NPDES FORM 2A APPLICATION OVERVIEW

4 2008

NPDES

### **APPLICATION OVERVIEW**

Form 2A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet. The Basic Application Information packet is divided into two parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete Part B. Some applicants must also complete the Supplemental Application Information packet. The following items explain which parts of Form 2A you must complete.

## **BASIC APPLICATION INFORMATION:**

- A. Basic Application Information for all Applicants. All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.
- B. Additional Application Information for Applicants with a Design Flow ≥ 0.1 mgd. All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.
- C. Certification. All applicants must complete Part C (Certification).

### **SUPPLEMENTAL APPLICATION INFORMATION:**

- D. Expanded Effluent Testing Data. A treatment works that discharges effluent to surface waters of the United States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):
  - 1. Has a design flow rate greater than or equal to 1 mgd,
  - 2. Is required to have a pretreatment program (or has one in place), or
  - 3. Is otherwise required by the permitting authority to provide the information.
- E. Toxicity Testing Data. A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):
  - 1. Has a design flow rate greater than or equal to 1 mgd,
  - 2. Is required to have a pretreatment program (or has one in place), or
  - 3. Is otherwise required by the permitting authority to submit results of toxicity testing.
- F. Industrial User Discharges and RCRA/CERCLA Wastes. A treatment works that accepts process wastewater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:
  - 1. All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
  - 2. Any other industrial user that:
    - Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions); or
    - Contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
    - c. Is designated as an SIU by the control authority.
- **G.** Combined Sewer Systems. A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

## ALL APPLICANTS MUST COMPLETE PART C (CERTIFICATION)

	CILITY NAME AND P Fr STP VA00240			Form Approved 1/14/99 OMB Number 2040-0086
BA	SIC APPLICA	ATION INFORMATION	The second secon	
PAF	RT A. BASIC APP	LICATION INFORMATION FOR ALI	_ APPLICANTS:	-0
Allt	reatment works mus	st complete questions A.1 through A.8 o	of this Basic Application Information pa	cket
A.1.	Facility Informatio	n.		
	Facility name	Riner STP		
	Mailing Address	755 Roanoke St., Suite 2-I Christiansburg, Virginia 24073		•
	Contact person	Bruce R. Jones		
	Title	Water/Wastewater Supervisor		
	Telephone number	(540) 268-5143		
	Facility Address	4351 Riner Rd.		
	(not P.O. Box)	Riner, Virginia 24149		
A.2.	Applicant Informat	tion. If the applicant is different from the a	bove, provide the following:	
	Applicant name	Montgomery County Public Service	Authority	
	Mailing Address	755 Roanoke St., Suite 2-I		
		Christiansburg, Virginia 24073		
	Contact person	Christiansburg, Virginia 24073  Bruce R. Jones		
	Contact person			
	,	Bruce R. Jones		
	Title Telephone number	Bruce R. Jones  Water/Wastewater Supervisor	ment works?	
	Title Telephone number  Is the applicant the owner Indicate whether cor	Bruce R. Jones  Water/Wastewater Supervisor  (540) 268-5143  cowner or operator (or both) of the treat  operator  respondence regarding this permit should		
	Title Telephone number Is the applicant the owner	Bruce R. Jones  Water/Wastewater Supervisor  (540) 268-5143  cowner or operator (or both) of the treat		
λ.3.	Title Telephone number Is the applicant the owner Indicate whether cor	Bruce R. Jones  Water/Wastewater Supervisor  (540) 268-5143  owner or operator (or both) of the treat  operator  respondence regarding this permit should  applicant  ental Permits. Provide the permit number	be directed to the facility or the applicant.	it have been issued to the treatment
	Title Telephone number Is the applicant the owner Indicate whether cor facility  Existing Environment	Bruce R. Jones  Water/Wastewater Supervisor  (540) 268-5143  cowner or operator (or both) of the treat  operator respondence regarding this permit should  applicant  ental Permits. Provide the permit number- issued permits).	be directed to the facility or the applicant.  of any existing environmental permits tha	
	Title  Telephone number  Is the applicant the owner Indicate whether cor facility  Existing Environme works (include state-	Bruce R. Jones  Water/Wastewater Supervisor  (540) 268-5143  cowner or operator (or both) of the treat  operator  respondence regarding this permit should  applicant  ental Permits. Provide the permit number issued permits).	be directed to the facility or the applicant.  of any existing environmental permits tha	<del></del>
	Title  Telephone number  Is the applicant the owner Indicate whether cor facility  Existing Environme works (include state-	Bruce R. Jones  Water/Wastewater Supervisor  (540) 268-5143  cowner or operator (or both) of the treat  operator respondence regarding this permit should  applicant  ental Permits. Provide the permit number- issued permits).	be directed to the facility or the applicant.  of any existing environmental permits that  PSD Other	
A.4.	Title  Telephone number  Is the applicant the owner Indicate whether cor facility  Existing Environme works (include state- NPDES VA00240  UIC  RCRA  Collection System I	Bruce R. Jones  Water/Wastewater Supervisor  (540) 268-5143  cowner or operator (or both) of the treat poperator respondence regarding this permit should applicant  ental Permits. Provide the permit number issued permits).	be directed to the facility or the applicant.  of any existing environmental permits that  PSD Other Other Cipalities and areas served by the facility	Provide the name and population of
<b>1.4.</b>	Title  Telephone number  Is the applicant the owner Indicate whether cor facility  Existing Environme works (include state- NPDES VA00240  UIC  RCRA  Collection System I each entity and, if kn	Bruce R. Jones  Water/Wastewater Supervisor  (540) 268-5143  cowner or operator (or both) of the treat  operator respondence regarding this permit should  applicant ental Permits. Provide the permit number issued permits).	be directed to the facility or the applicant.  of any existing environmental permits that  PSD Other Other Cipalities and areas served by the facility	Provide the name and population of

Total population served 250

Riner STP VA0024040		ANO P	OMP Number
A.5. Indian Country.		- 4.	3WB Number 2040-008
a. Is the treatment west		110	
a. Is the treatment works located in	Indian Country?		
Yes Yes	No		
b. Does the treatment works discharge through) Indian Countries	ge to a receiving water that is either i	n India- O	
Yes V	,	in mulan Country or that is u	pstream from (and eventually flows
	No		
A.6. Flow. Indicate the design flow rate of t	he treatment plant (: - "		
A.6. Flow. Indicate the design flow rate of taverage daily flow rate and maximum operiod with the 12th month of "this year	laily flow rate for each of the last thre	ter flow rate that the plant w	vas built to handle). Also provide the
	- man unce mon	hs prior to this application s	must be based on a 12-month time
a. Design flow rate0.10	mgd		doffittal.
	Two Years Ago		
<ul> <li>b. Annual average daily flow rate</li> </ul>		Last Year	This Year
c. Maximum daily flow rate	0.019	0.020	0.022
	0.124	0.076	0.022 mgd
<ol> <li>Collection System. Indicate the type(s) contribution (by miles) of each.</li> </ol>	of collection system(s) used by the	2.070	0.042 mgd
(by miles) of each.	by the	treatment plant. Check all t	hat apply. Also estimate the percent
Separate sanitary sewer			ino percent
Combined storm and sanitary se			100 %
			,
<ol> <li>Discharges and Other Disposal Method</li> </ol>	is.		%
Does the treatment works discharge e	ffluent to waters of the U.S.?	./	
If yes, list how many of each of the foll i. Discharges of treated effluent	owing types of discharge points the		No
		works uses:	
ii. Discharges of untreated or partially	/ treated effluent		_1
iii. Combined sewer overflow points			
iv. Constructed emergency overflows	(prior to the t		
v. Other	(prior to the headworks)		
<ul> <li>Does the treatment works discharge effi impoundments that do not have outlets t</li> </ul>	Uent to have		
impoundments that do not have outlets i	for discharge to waters of the U.S.	ce	
If yes, provide the following for each sur	face impoundment:		Yes No
Location:	podridment.		
Annual average daily volume discharged	4		
Is discharge	to surface impoundment(s)		
continuous o	r intermittent?		mgd
Does the treatment works land-apply tree	tod		
and-apply trea	ted wastewater?		Yes /
if yes, provide the following for each land	ted wastewater? application site:		Yes No
Location:	ted wastewater? <u>application site</u> :		Yes No
Location:  Number of acres:	application site:		Yes√ No
Location:  Number of acres:  Annual average daily volume applied to sit	application site:		Yes No
Location:  Number of acres:  Annual average daily volume applied to sit	application site:	Mgd	Yes No
Number of acres:  Annual average daily volume applied to sit land application continuo	application site: e: us or intermittent?	Mgd	Yes No
Location:  Number of acres:  Annual average daily volume applied to sit	application site: e: us or intermittent?	Mgd	Yes ✓ No

FACILI Riner S	TY NAME AND PERM STP VA0024040	IT NUMBER:	Form Approved 1/14/99 OMB Number 2040-008	36
	If yes, describe the works (e.g., tank tru		works is discharged or transported to the other treatment	
	N/A			
		arty other than the applicant, provide:		
	Transporter name:	-		
	Mailing Address:			
	Contact person:	Management and a second of the		-
	Title:			_
	Telephone number:			_
	For each treatment	works that receives this discharge, provide the following		
	Mailing Address:			
				_
	Contact person:			
	Title:			
	Telephone number:			
	If known, provide the	NPDES permit number of the treatment works that re	eceives this discharge.	
	Provide the average	daily flow rate from the treatment works into the rece	iving facility mgd	_
e.		works discharge or dispose of its wastewater in a mar above (e.g., underground percolation, well injection)?	nner not included in Yes No	
	If ves, provide the fo	llowing for each disposal method:		

Description of method (including location and size of site(s) if applicable):

\_ continuous or

intermittent?

Annual daily volume disposed of by this method:

Is disposal through this method

.11.	Des	scription of T	reatment.									
	а	What levels	of treatment	are provide	ed? Check all t	hat ar	nnly					
	a.		rimary	are provide	-	Secon						
							Describe:	0.1 MCD	Extended A	eration Packa	ac Di	lant
							Describe.	U. I MIGD	Extended A	eration Facka	ige Fi	Idill
	b.	Indicate the f	ollowing rea	moval rates	(as applicable)	):						
		Design BOD	removal <u>o</u>	Design CB	OD <sub>5</sub> removal			<u>91</u>	.7	%		
		Design SS re	moval					87	.5	%		
		Design P rem	noval					N/A	4	%		
		Design N ren	noval					87	.5	%		
		Other								%		
	C.	What type of	disinfection	is used for	the effluent fro	m this	s outfall? If di	sinfection varie	es by season	please describ	e.	
		UV Disinfe										
		If disinfection	is by chlori	nation, is de	echlorination us	sed fo	or this outfall?			Yes		No
	d.	Does the trea	tment plant	have post	aeration?				1	Yes		 No
												_
	para disc coll of 4 At a	<u>charged</u> . Do lected throug l0 CFR Part 1	vide the ind not include h analysis 36 and oth	dicated effle information conducted er appropri	uent testing r on on combin lusing 40 CFF iate OA/OC re	equir ed se R Pari quire	red by the per ewer overflow t 136 method ements for st	rmitting authous in this section in this section in addition and ard methous in the section in t	ority <u>for eacl</u> tion. All info n, this data n ods for analy nust be no r	n outfall through mation report nust comply wites not addres nore than four	th whi ed mu ith QA sed b and o	ich effluent is ich effluent is st be based on NQC requiremen y 40 CFR Part 1 one-half years a
	para disc coll of 4 At a	ameters. Pro charged. Do lected throug 0 CFR Part 1 a minimum, e	vide the inc not include h analysis 36 and oth ffluent test	dicated effle information conducted er appropri	uent testing r on on combin I using 40 CFF iate QA/QC re ust be based	equir ed se R Pari quire on at	red by the perewer overflow t 136 method ements for state three s	rmitting authous in this section in this section in addition and ard methous in the section in t	ority for each	moutfall through mation reportenust comply wites not address nore than four	th whiled musith QA sed band o	ich effluent is ust be based on NQC requiremen y 40 CFR Part 1 one-half years a
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FAC	ILIT	Y NAME AND PERMIT NUMBER:	Form Approved 1/14/99 OMB Number 2040-0086
Rine	r S	TP VA0024040	CIND Name 2010 CCC
BA	SI	C APPLICATION INFORMATION	
PAF	RT E	B. ADDITIONAL APPLICATION INFORMATION FOR APPLIE EQUAL TO 0.1 MGD (100,000 gallons per day).	CANTS WITH A DESIGN FLOW GREATER THAN OR
All a	ppli	cants with a design flow rate $\geq 0.1$ mgd must answer questions B.1 throu	gh B.6. All others go to Part C (Certification).
B.1.	In	flow and Infiltration. Estimate the average number of gallons per day t <1000 gpd	hat flow into the treatment works from inflow and/or infiltration.
	Br	iefly explain any steps underway or planned to minimize inflow and infiltr	ation.
	M	anhole inspections and repairs as needed. Work began January	2008.
			SEE ATTACHMENT # 2
B.2.	To	pographic Map. Attach to this application a topographic map of the are	
	Th	is map must show the outline of the facility and the following information entire area.)	
	a.	The area surrounding the treatment plant, including all unit processes.	
	b.	The major pipes or other structures through which wastewater enters the treated wastewater is discharged from the treatment plant. Include out	
	C.	Each well where wastewater from the treatment plant is injected under	ground.
	d.	Wells, springs, other surface water bodies, and drinking water wells the works, and 2) listed in public record or otherwise known to the applicant	
	e.	Any areas where the sewage sludge produced by the treatment works	is stored, treated, or disposed.
	f.	If the treatment works receives waste that is classified as hazardous ut truck, rail, or special pipe, show on the map where that hazardous was disposed.	
B.3.	bac	cess Flow Diagram or Schematic. Provide a diagram showing the prokup power sources or redundancy in the system. Also provide a water borination and dechlorination). The water balance must show daily average rates between treatment units. Include a brief narrative description of the	palance showing all treatment units, including disinfection (e.g.
B.4.		eration/Maintenance Performed by Contractor(s).	
	Are	any operational or maintenance aspects (related to wastewater treatme tractor?YesNo	nt and effluent quality) of the treatment works the responsibility of a
		es, list the name, address, telephone number, and status of each contractes if necessary).	ctor and describe the contractor's responsibilities (attach additional
	Naı	ne:	Annual An
	Mai	ling Address:	
	Tel	ephone Number:	
	Res	sponsibilities of Contractor:	
B.5.	und trea	neduled Improvements and Schedules of Implementation. Provide is ompleted plans for improvements that will affect the wastewater treatment works has several different implementation schedules or is plannifor each. (If none, go to question B.6.)	nt, effluent quality, or design capacity of the treatment works. If the

List the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule.

Indicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies.

\_\_\_\_Yes \_\_\_\_No

FACILITY NAME A Riner STP VA00	ND PERMIT NUMBE )24040	R:					oproved 1/14/99 umber 2040-0086
c If the answ	ver to B.5.b is "Yes,"	briefly describe, in	ncluding new ma	ximum daily inflo	w rate (if applica	able).	
N/A						and the state of t	
applicable	ates imposed by any of the second sec	planned independ	dently of local, St	l dates of comple ate, or Federal a	etion for the implogencies, indicate	ementation steps liste e planned or actual co	d below, as mpletion dates,
		Schedu	le	Actual Complete	ion		
Implemen	tation Stage	MM / DI	D/YYYY	MM / DD / YYYY	<u>Y</u>		
– Begin co	onstruction	_/_			_		
<ul><li>End con</li></ul>	struction	/_			_		
– Begin di	scharge	/_			_		
– Attain op	erational level	_/_	<i></i>		_		
e. Have appr	opriate permits/cleara	ances concerning	other Federal/S	tate requirements	s heen obtained	2 Vor	No
Describe b		and donoching				165	
Applicants that testing required overflows in the methods. In adstandard methods	d by the permitting au is section. All informa ddition, this data mus ods for analytes not a	of the US must part of the US must part of the office office of the offi	rovide effluent te utfall through what ist be based on o /QC requirement CFR Part 136. A	nich effluent is dis data collected thro is of 40 CFR Part t a minimum, effl	charged. Do no ough analysis co	neters. Provide the intition of include information of inducted using 40 CF appropriate QA/QC reamust be based on at	on combined se R Part 136 quirements for
Applicants that testing required overflows in the methods. In a standard methods	discharge to waters d by the permitting au is section. All information, this data mus addition, this data mus ods for analytes not a and must be no mor	of the US must part of the US must part of the office office of the offi	rovide effluent te utfall through what ist be based on o /QC requirement CFR Part 136. A	nich effluent is dis lata collected thro is of 40 CFR Part t a minimum, effl l.	charged. Do no bugh analysis co t 136 and other a uent testing data	t include information of	on combined se R Part 136 quirements for least three
Applicants that testing require overflows in the methods. In a standard methollutant scans	discharge to waters d by the permitting au is section. All informa ddition, this data mus ods for analytes not a and must be no mor	of the US must protection reported must comply with QA addressed by 40 (see than four and others).	rovide effluent te outfall through wh ist be based on c /QC requirement CFR Part 136. A ne-half years old	nich effluent is dis lata collected thro is of 40 CFR Part t a minimum, effl l.	charged. Do no pugh analysis co 136 and other a uent testing data	at include information of anducted using 40 CF appropriate QA/QC re a must be based on at	on combined se R Part 136 quirements for least three
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Applicants that testing require overflows in the methods. In an standard methopollutant scans Outfall Number POLLUTANT  ONVENTIONAL AN  MMONIA (as N)  HLORINE (TOTAL	discharge to waters d by the permitting au is section. All information, this data must be for analytes not a sand must be no more: 001  MAXI  Conc.  D NONCONVENTIO	of the US must protection reported must comply with QA addressed by 40 (e than four and of the Charles of the Units of the Compount of the Units of	rovide effluent te rutfall through wh st be based on o QC requirement CFR Part 136. A ne-half years old AVER Conc.	ich effluent is dis lata collected thrus is of 40 CFR Part it a minimum, effl i.  SEE  AGE DAILY DISE	charged. Do no obugh analysis co to 136 and other a uent testing data  PTTPC  CHARGE  Number of Samples	at include information of included using 40 CFI appropriate QA/QC real must be based on at the property of the	on combined set R Part 136 quirements for least three
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Applicants that testing require overflows in the methods. In an standard metholiutant scans Outfall Number POLLUTANT  ONVENTIONAL AN MMONIA (as N)  HLORINE (TOTAL ESIDUAL, TRC)  ISSOLVED OXYGEI  OTAL KJELDAHL	discharge to waters d by the permitting au is section. All information, this data must be no more: 001  MAXI DIS Conc.  D NONCONVENTIO  0.11  N/A  N 12.3	of the US must protection reported must comply with QA addressed by 40 (e.e. than four and one of the comply with QA addressed by 40 (e.e. than four and one of the comply with QA addressed by 40 (e.e. than four and one of the complex comp	rovide effluent te rutfall through wh st be based on o /QC requirement CFR Part 136. A ne-half years old  AVER  Conc.  DS.  0.11  N/A  9.4	ich effluent is dis lata collected thruis of 40 CFR Part t a minimum, efflut.  SEE  AGE DAILY DISC  Units  mg/L  N/A  mg/L	charged. Do no pugh analysis co to 136 and other a uent testing data  ATTIPC  CHARGE  Number of Samples  1  N/A  365	and the include information of include information of include the include information of include the included included including the included included including the included including the included including the included including the including the included including the including t	on combined set R Part 136 quirements for a least three  ML / MDL  0.1 mg/L  N/A  0.1 mg/L
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Applicants that testing require overflows in the methods. In an standard methollular testing require overflows in the methods. In an standard methollular testing require pollutant scans  Outfall Number POLLUTANT  ONVENTIONAL AN MMONIA (as N)  HLORINE (TOTAL ESIDUAL, TRC)  ISSOLVED OXYGEI  OTAL KJELDAHL  ITROGEN (TKN)  TRATE PLUS NITR  TROGEN  IL and GREASE	discharge to waters d by the permitting au is section. All information, this data must be section, this data must be no more: 001  MAXI DIS Conc.  D NONCONVENTIO  0.11  N/A  12.3  7.0  ITE 41.0  <5	of the US must prediction reported must comply with QA addressed by 40 (e.e. than four and one of the comply with QA addressed by 40 (e.e. than four and one of the comply with QA addressed by 40 (e.e. than four and one of the complex comp	rovide effluent te rutfall through wh st be based on o /QC requirement CFR Part 136. A ne-half years old  AVER  Conc.  DS.  0.11  N/A  9.4  1.2  41  <5	ich effluent is dis lata collected thrus s of 40 CFR Part t a minimum, efflut a minimum, efflut LAGE DAILY DISC Units  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L	charged. Do no ough analysis con a 136 and other a uent testing data PTTPC.  CHARGE  Number of Samples  1  N/A  365  183  1	and the include information of include information of include the include information of include the include including the including and including the inclu	on combined set R Part 136 quirements for least three  ML / MDL  0.1 mg/L  N/A  0.1 mg/L  1.0 mg/L  5.0 mg/L
Applicants that testing require overflows in the methods. In as standard methologists and a standard methologists and are pollutant scans.  Outfall Number POLLUTANT  ONVENTIONAL AN MMONIA (as N)  HLORINE (TOTAL ESIDUAL, TRC)  ISSOLVED OXYGEI  OTAL KJELDAHL  TROGEN (TKN)  TRATE PLUS NITR  TROGEN  L and GREASE  HOSPHORUS (Total	discharge to waters d by the permitting au is section. All information to the permitting au is section.    MAXI	of the US must prithority for each of ation reported must comply with QA, addressed by 40 (see than four and of the comply with QA, addressed by 40 (see than four and of the comply with QA, and the	rovide effluent te rutfall through wh st be based on c /QC requirement CFR Part 136. A ne-half years old  AVER  Conc.  0.11  N/A  9.4  1.2  41	ich effluent is dis lata collected thre is of 40 CFR Part it a minimum, effl l.  SEE  AGE DAILY DISC  Units  mg/L  mg/L  mg/L  mg/L  mg/L	charged. Do no ough analysis co to 136 and other a uent testing data  PTTPC  CHARGE  Number of Samples  1  N/A  365  183	at include information of included using 40 CFI appropriate QA/QC real must be based on at a must be based on	on combined set R Part 136 quirements for least three  ML / MDL  0.1 mg/L  N/A  0.1 mg/L  1.0 mg/L
Applicants that testing require overflows in the methods. In asstandard method pollutant scans  Outfall Number	discharge to waters d by the permitting au is section. All information, this data must be section, this data must be no more: 001  MAXI DIS Conc.  D NONCONVENTIO  0.11  N/A  12.3  7.0  ITE 41.0  <5	of the US must prediction reported must comply with QA addressed by 40 (e.e. than four and one of the comply with QA addressed by 40 (e.e. than four and one of the comply with QA addressed by 40 (e.e. than four and one of the complex comp	rovide effluent te rutfall through wh st be based on o /QC requirement CFR Part 136. A ne-half years old  AVER  Conc.  DS.  0.11  N/A  9.4  1.2  41  <5	ich effluent is dis lata collected thrus s of 40 CFR Part t a minimum, efflut a minimum, efflut LAGE DAILY DISC Units  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L	charged. Do no ough analysis con a 136 and other a uent testing data PTTPC.  CHARGE  Number of Samples  1  N/A  365  183  1	ANALYTICAL METHOD  SM 4500NH3,F  N/A  SM 4500NH3-H  EPA 1664-A	on combined set R Part 136 quirements for least three  ML / MDL  0.1 mg/L  N/A  0.1 mg/L  1.0 mg/L  5.0 mg/L

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

FACILITY NAME AND P	ERMIT NUMBER:			Form Approved 1/14/99 OMB Number 2040-0086
Riner STP Permi	it No. VA0024040		j	Cind Names 2010 0000
BASIC APPLICA	ATION INFORMAT	ION		
2.00 0 0FD7F10.43	PION			
PART C. CERTIFICAT				
applicants must complete have completed and are	all applicable sections of Fo	orm 2A, as explained in the certification statement, appl	Application Overview. Indicate	purposes of this certification. All below which parts of Form 2A you riewed Form 2A and have completed
Indicate which parts of	Form 2A you have comple	ted and are submitting:		
Basic Applic	ation Information packet	Supplemental Application	n Information packet:	
		Part D (Expand	ed Effluent Testing Data)	
		Part E (Toxicity	Testing: Biomonitoring Data)	
		Part F (Industri	al User Discharges and RCRA/0	CERCLA Wastes)
		Part G (Combin	ed Sewer Systems)	
ALL APPLICANTS MUS	T COMPLETE THE FOLLO	WING CERTIFICATION.		
designed to assure that of	ualified personnel properly on those persons directly resolutions to complete. I am aware that	gather and evaluate the info sponsible for gathering the	rmation submitted. Based on n nformation, the information is, to	ision in accordance with a system ny inquiry of the person or persons the best of my knowledge and on, including the possibility of fine
Name and official title	Robert C. Fa	ZONK, PSA [	linector	RECEIVED
Signature	_ all cold			MAY O O DOOR
Telephone number	540-381-19	197		MAY 0 9 2008
Date signed	May 8,20	68		DEQ-WCRO
	nitting authority, you must su late permitting requirements.		necessary to assess wastewate	r treatment practices at the treatment

SEND COMPLETED FORMS TO:

								r				
FACILITY NAI	ME AND PERMIT I	NUMBE	₹:								Form App	roved 1/14/99
Riner STP	VA0024040				N	/A						nber 2040-0086
SUPPLEM	MENTAL AP	PLIC	ATIO	N INF	ORM	ATIO	N					
PART D. EX	PANDED EFFLU	JENT T	ESTIN	G DAT	A							
Refer to the di	irections on the c	over pag	je to de	etermine	whethe	r this se	ection a	pplies to	the tre	atment wor	ks.	
data for the foll each outfall the must be based requirements o Indicate in the I	owing pollutants. Fough which effluen on data collected to fee the feet that the feet	Provide to the control of the contro	gram, o he indic <u>arged</u> . analyses er appro any data	r is otnei ated effli Do not i s conduc priate Q a vou ma	rwise recuent test nclude in ted using A/QC recuents	quired by ing information g 40 CFF quiremen	the permation a mation a concept of the concept of	mitting and any of mbined significant and	uthority other info sewer ov ods. In a nethods	to provide the pro	ater than or equal to e data, then provide uired by the permitti is section. All infon se data must comply not addressed by 4 . At a minimum, eff	e effluent testing ng authority for mation reported with QA/QC
Outfall number:		(Cor	nplete d	once for	each out	fall disch	arging e	effluent to	waters	of the Unite	d States.)	
POLL	UTANT		<b>NAXIML</b>	JM DAIL HARGE		7		EDAILY				
		Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of	ANALYTICAL METHOD	ML/ MDL

Conc.	Units	HARGE Mass	Units		-					
CYANIDE,				Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
	PHENO	LS, AND	HARDNE	SS.				Camples		
										***************************************
шщ										
		1								
						+	$\dashv$			
					$\dashv$					
rovide info	rmation	on other n	netals req	uested by	the perm	it writer				
				Ī	T			T		
	rovide info	rovide information	rovide information on other r	rovide information on other metals req	rovide information on other metals requested by	rovide information on other metals requested by the perm	rovide information on other metals requested by the permit writer.	rovide information on other metals requested by the permit writer.	rovide information on other metals requested by the permit writer.	rovide information on other metals requested by the permit writer.

FACILITY NAME AND PERMIT NUMBER:
Riner STP VA0024040

N/A

Outfall number:	(Comp	lete ond	ce for ea	ch outfall	dischar	ging effl	uent to w	vaters of	States.)		
POLLUTANT		JMIXAN	JM DAIL HARGE	Y	A'	VERAG	DAILY	DISCH	ARGE		
	Conc.	Units		Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
VOLATILE ORGANIC COMPOUNDS.									- Campioo		
ACROLEIN											
ACRYLONITRILE											
BENZENE											
BROMOFORM											
CARBON TETRACHLORIDE											
CLOROBENZENE											
CHLORODIBROMO-METHANE											
CHLOROETHANE											
2-CHLORO-ETHYLVINYL ETHER											
CHLOROFORM								$\neg$			
DICHLOROBROMO-METHANE											
1,1-DICHLOROETHANE											
1,2-DICHLOROETHANE											
TRANS-1,2-DICHLORO-ETHYLENE											
1,1-DICHLOROETHYLENE											
I,2-DICHLOROPROPANE											
,3-DICHLORO-PROPYLENE											
THYLBENZENE											
METHYL BROMIDE											
ETHYL CHLORIDE											
ETHYLENE CHLORIDE											· · · · · · · · · · · · · · · · · · ·
1,2,2-TETRACHLORO-ETHANE						$\top$					
ETRACHLORO-ETHYLENE											-
DLUENE											

FACILITY NAME AND PERMIT NUMBER: Riner STP VA0024040

N/A

Outfall number:	(Comp	lete onc	ce for ear	ch outfal	dischar	ging effl	uent to v	vaters of	f the United S	States.)	
POLLUTANT		MAXIMU	UM DAIL				E DAILY				
	Conc.	Units	HARGE Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
1,1,1-TRICHLOROETHANE											
1,1,2-TRICHLOROETHANE											
TRICHLORETHYLENE											
VINYL CHLORIDE											
Use this space (or a separate shee	et) to provide in	formation	n on other	volatile o	rganic cor	mpounds	requester	d by the r	permit writer.		
ACID-EXTRACTABLE COMPOUN	NDS										
										121-11-1	
P-CHLORO-M-CRESOL											
2-CHLOROPHENOL											8
2,4-DICHLOROPHENOL											reconstruction of the second
2,4-DIMETHYLPHENOL											
4,6-DINITRO-O-CRESOL											
2,4-DINITROPHENOL											
2-NITROPHENOL											
4-NITROPHENOL					<b>—</b> —				h L	uv.3	
PENTACHLOROPHENOL											
PHENOL										ur 1 1-1-1	
2,4,6-TRICHLOROPHENOL											
Use this space (or a separate sheet	t) to provide info	ormation	on other	acid-extra	ctable cor	mpounds	requester	d by the r	permit writer.		
	البيطانية										
BASE-NEUTRAL COMPOUNDS.											
ACENAPHTHENE											
ACENAPHTHYLENE											
ANTHRACENE											
BENZIDINE								T			
BENZO(A)ANTHRACENE											
BENZO(A)PYRENE								1			

FACILITY NAME AND PERMIT NUMBER:

Riner STP VA0024040 N/A

Outfall number: (Complete once for each outfall discharging effluent to waters of the United States.) **POLLUTANT** MAXIMUM DAILY AVERAGE DAILY DISCHARGE DISCHARGE Conc. Units Mass Units Conc. Units Mass Units Number ANALYTICAL ML/ MDL METHOD Samples 3,4 BENZO-FLUORANTHENE BENZO(GHI)PERYLENE BENZO(K)FLUORANTHENE BIS (2-CHLOROETHOXY) BIS (2-CHLOROETHYL)-ETHER BIS (2-CHLOROISO-PROPYL) ETHER BIS (2-ETHYLHEXYL) PHTHALATE 4-BROMOPHENYL PHENYL ETHER BUTYL BENZYL PHTHALATE 2-CHLORONAPHTHALENE 4-CHLORPHENYL PHENYL ETHER CHRYSENE DI-N-BUTYL PHTHALATE DI-N-OCTYL PHTHALATE DIBENZO(A,H) ANTHRACENE 1,2-DICHLOROBENZENE 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE 3,3-DICHLOROBENZIDINE DIETHYL PHTHALATE DIMETHYL PHTHALATE 2,4-DINITROTOLUENE 2,6-DINITROTOLUENE 1,2-DIPHENYLHYDRAZINE

Riner STP VA0024040 N/A

Outfall number:POLLUTANT			JM DAIL				DAILY		the United S	1	
T OLLO I / MY	Conc.		HARGE	Units	Conc.	Units	Mass	Units	Number of	ANALYTICAL METHOD	ML/ MDI
									Samples		
FLUORANTHENE											
FLUORENE											
HEXACHLOROBENZENE			18 18	) F							
HEXACHLOROBUTADIENE											
HEXACHLOROCYCLO- PENTADIENE											
HEXACHLOROETHANE										1 K 1	
NDENO(1,2,3-CD)PYRENE											
SOPHORONE											
NAPHTHALENE											
NITROBENZENE											
N-NITROSODI-N-PROPYLAMINE											
N-NITROSODI- METHYLAMINE											
I-NITROSODI-PHENYLAMINE											
HENANTHRENE											
YRENE											
2,4-TRICHLOROBENZENE											
se this space (or a separate sheet) to	provide inf	ormation	on other	pase-neut	ral compo	ounds req	uested by	the perm	nit writer.		
se this space (or a separate sheet) to	provide inf	ormation	on other	oollutants	(e.g., pes	ticides) re	equested	by the pe	rmit writer.		
				1							

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE

			Í	
FACILITY NAME AND PERMIT NUN	IBER:			Form Approved 1/14/99 OMB Number 2040-0086
Riner STP VA0024040		I/A		ONE Namber 2010-0000
SUPPLEMENTAL APPL	ICATION INFORM	IATION		
PART E. TOXICITY TESTING	G DATA			
the facility's discharge points: 1) POI that are required to have one under 44  • At a minimum, these result two species), or the results results show no appreciable not include information on analysis conducted using 4 and other appropriate QA/( • In addition, submit the result test conducted during the pof a toxicity reduction evaluer of a toxicity reduction evaluer if you have already submitt requested in question E.4 for methods. If test summaries if no biomonitoring data is required, decomplete.  E.1. Required Tests.  Indicate the number of whole effited	Ws with a design flow rate go CFR Part 403); or 3) POTV to the position of the	preater than or equal or equal or equired by the ting for a 12-mon at least annually in the section. All in addition, this did methods for an ant toxicity tests for revealed toxicity, and of the information. If EPA reall of the information to the Application in the past four an and the past four and	jual to 1.0 mgd; 2) Fe permitting authorit th period within the particle to toxicity, depending a linformation reporte at a must comply with alytes not addresse om the past four and provide any information requested below in Overview for directand one-half years.	d one-half years. If a whole effluent toxicity ation on the cause of the toxicity or any results nit it again. Rather, provide the information sed, report the reasons for using alternate, they may be submitted in place of Part E. ctions on which other sections of the form to
,	Test number:		t number:	Test number:
a. Test information.				
Test species & test method number				
Age at initiation of test				
Outfall number				
Dates sample collected		a api ii.		
Date test started				
Duration				
b. Give toxicity test methods follo	wed.			
Manual title				
Edition number and year of publication				
Page number(s)				
c. Give the sample collection met	thod(s) used. For multiple gr	rab samples, indi	cate the number of (	grab samples used.
24-Hour composite				

d. Indicate where the sample was taken in relation to disinfection. (Check all that apply for each)

Grab

Before disinfection

After disinfection

After dechlorination

FACILITY N	AME AND PERMIT NUMBER:	
Riner STP	VA0024040	N/A

	Test number:	Test number:	Test number:
e. Describe the point in the treatm	nent process at which the sample w	as collected.	
Sample was collected:			
f. For each test, include whether the	he test was intended to assess chro	onic toxicity, acute toxicity, or both.	
Chronic toxicity			
Acute toxicity			
g. Provide the type of test perform	ed.		
Static			
Static-renewal			
Flow-through			
h. Source of dilution water. If labor	ratory water, specify type; if receivir	ng water, specify source.	
Laboratory water			
Receiving water			
i. Type of dilution water. It salt water	er, specify "natural" or type of artific	zial sea salts or brine used.	
Fresh water			
Salt water			
j. Give the percentage effluent used	for all concentrations in the test se	eries.	
k. Parameters measured during the	test. (State whether parameter me	ets test method specifications)	
рН		- speamedanne)	
Salinity			
Temperature			
Ammonia			
Dissolved oxygen			
I. Test Results.			
Acute:			
Percent survival in 100%	%	0/	
effluent	70	%	%
LC <sub>50</sub>			
95% C.I.	%	%	%
Control percent survival	%	%	%
Other (describe)			N
A E		Language and the second	

FACILITY NAME AND PERMIT NUMBER: Riner STP VA0024040	Form Approved 1/14/99 OMB Number 2040-0086		
Chronic:			
NOEC	%	%	%
IC <sub>25</sub>	%	%	%
Control percent survival	%	%	%
Other (describe)			
m. Quality Control/Quality Assurance.			
Is reference toxicant data available?			
Was reference toxicant test within acceptable bounds?	п		
What date was reference toxicant test run (MM/DD/YYYY)?			
Other (describe)		n Barthell and a second	
E.4. Summary of Submitted Biomonitoring Test Info cause of toxicity, within the past four and one-half summary of the results.	ormation. If you have submit	tted higmonitoring test information	n, or information regarding the permitting authority and a
Date submitted: (MM/DD/	YYYY)		
Summary of results: (see instructions)			
REFER TO THE APPLICATION OVI	END OF PART	E.	D DADTE OF FORM

**2A YOU MUST COMPLETE.** 

N/A

Form Approved 1/14/99 OMB Number 2040-0086

## SUPPLEMENTAL APPLICATION INFORMATION

#### PART F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCI A WASTES

	NERAL INFORMATION:
F.1.	Pretreatment Program. Does the treatment works have, or is it subject to, an approved pretreatment program? YesNo
F.2.	Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following type of industrial users that discharge to the treatment works.
	a. Number of non-categorical SIUs.
	b. Number of CIUs.
SIG	NIFICANT INDUSTRIAL USER INFORMATION:
Suppand	oly the following information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 provide the information requested for each SIU.
F.3.	Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.
	Name:
	Mailing Address:
·.4.	Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
.5.	Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
	Principal product(s):
	Principal product(s):  Raw material(s):
.6.	Flow Rate.  a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
.6.	Raw material(s):  Flow Rate.  a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the control of the co
F.6.	Flow Rate.  a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
.6.	Flow Rate.  a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
.6. 7. F	Raw material(s):  Flow Rate.  a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (continuous orintermittent)  b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (continuous orintermittent)  Pretreatment Standards. Indicate whether the SIU is subject to the following:
7. F	Flow Rate.  a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.

Riner	LITY NAME AND PE STP VA002404		N//A	Form Approved 1/14/99 OMB Number 2040-0086
			N/A	
F.8.	Problems at the Tro upsets, interference	eatment Works Attrib at the treatment work	outed to Waste Discharged by the s in the past three years?	SIU. Has the SIU caused or contributed to any problems (e.
	YesNo	If yes, descri	be each episode.	
RCR	A HAZARDOUS V	WASTE RECEIVED	BY TRUCK, RAIL, OR DEDICA	ATED PIPELINE:
.9.	RCRA Waste. Does pipe?Yes _	s the treatment works r No (go to F.12.)	eceive or has it in the past three yea	ars received RCRA hazardous waste by truck, rail, or dedicat
.10.	Waste Transport.	Method by which RCR	A waste is received (check all that a	pply):
	Truck	Rail	Dedicated Pipe	
.11.	Waste Description.	. Give EPA hazardous	s waste number and amount (volume	e or mass, specify units)
	EPA Hazardous Wa		<u>Amount</u>	Units
				and and the second
		_		
	N A (OLIDEDELINI	D. 1444 0		CTIVE
ERC	CLA (SUPERFUNI ON WASTEWATE	D) WASTEWATER, :R AND OTHER RE	RCRA REMEDIATION/CORRE	ATED.
CTI	ON WASTEWATE	R, AND OTHER RE	EMEDIAL ACTIVITY WASTEWA	ATER:
ACTIO	ON WASTEWATE Remediation Waste	ER, AND OTHER RE  Does the treatment	EMEDIAL ACTIVITY WASTEWA works currently (or has it been notific	ATER:  ed that it will) receive waste from remedial activities?
ACTIO F.12.	ON WASTEWATE Remediation WasteYes (complete	ER, AND OTHER RE Does the treatment F.13 through F.15.)	EMEDIAL ACTIVITY WASTEWA works currently (or has it been notification in the company of the comp	ATER:  ed that it will) receive waste from remedial activities?
ACTIO F.12.	ON WASTEWATE Remediation WasteYes (complete	ER, AND OTHER RE Does the treatment F.13 through F.15.)	EMEDIAL ACTIVITY WASTEWA works currently (or has it been notific	ATER: ed that it will) receive waste from remedial activities?
.12.	ON WASTEWATE  Remediation Waste Yes (complete  Provide a list of sites  Waste Origin. Desc	ER, AND OTHER RE  Does the treatment of F.13 through F.15.)  and the requested information of the cribe the site and type of the site and type of the cribe	works currently (or has it been notified to be not	ed that it will) receive waste from remedial activities? rent and future site.
.12.	ON WASTEWATE  Remediation Waste  Yes (complete  Provide a list of sites	ER, AND OTHER RE  Does the treatment of F.13 through F.15.)  and the requested information of the cribe the site and type of the site and type of the cribe	works currently (or has it been notified to be not	ed that it will) receive waste from remedial activities? rent and future site.
.12.	ON WASTEWATE  Remediation Waste Yes (complete  Provide a list of sites  Waste Origin. Desc	ER, AND OTHER RE  Does the treatment of F.13 through F.15.)  and the requested information of the cribe the site and type of the site and type of the cribe	works currently (or has it been notified to be not	ed that it will) receive waste from remedial activities? rent and future site.
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.12.	ON WASTEWATE  Remediation Waste Yes (complete  Provide a list of sites  Waste Origin. Desc	ER, AND OTHER RE  Does the treatment of F.13 through F.15.)  and the requested information of the cribe the site and type of the site and type of the cribe	works currently (or has it been notified to be not	ATER: ed that it will) receive waste from remedial activities?
.12.	ON WASTEWATE  Remediation Waste  Yes (complete  Provide a list of sites  Waste Origin. Description of the next five years)	ER, AND OTHER RE  Does the treatment of F.13 through F.15.)  s and the requested informibe the site and type of th	works currently (or has it been notification in the currently (or has it been notification in the currently (or has it been notification in the currently of facility at which the CERCLA/RCF	ed that it will) receive waste from remedial activities?  rent and future site.  RA/or other remedial waste originates (or is expected to origin
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.12.	ON WASTEWATE  Remediation Waste  Yes (complete Provide a list of sites  Waste Origin. Description to the next five years)  Pollutants. List the	ER, AND OTHER RE  Does the treatment of F.13 through F.15.)  s and the requested informibe the site and type of head of the site and type of the	works currently (or has it been notification in the community of has it been notification in the community of facility at which the CERCLA/RCF is that are received (or are expected)	ed that it will) receive waste from remedial activities?  rent and future site.  RA/or other remedial waste originates (or is expected to originates)
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.13. V	Pollutants. List the mown. (Attach addit	ER, AND OTHER RE  Does the treatment of F.13 through F.15.)  s and the requested informibe the site and type of th	works currently (or has it been notification in the community of has it been notification in the community of facility at which the CERCLA/RCF is that are received (or are expected)	ed that it will) receive waste from remedial activities?  rent and future site.  RA/or other remedial waste originates (or is expected to originate to be received). Include data on volume and concentration,
.13. \\ .13. \\ .14. \  .15. \\	Pollutants. List the mown. (Attach addit	ER, AND OTHER RE  Does the treatment of F.13 through F.15.)  s and the requested information of the site and type	works currently (or has it been notification in the company of formation (F.13 - F.15.) for each currently at which the CERCLA/RCF is that are received (or are expected any).	ed that it will) receive waste from remedial activities?  rent and future site.  RA/or other remedial waste originates (or is expected to originate or is expected or is expected to originate originate or is expected to originate originate originate origi
.13. \ i 15. \ \	Pollutants. List the mown. (Attach addit	ER, AND OTHER RE  Does the treatment of F.13 through F.15.)  s and the requested information of the site and type	works currently (or has it been notification in the company of formation (F.13 - F.15.) for each currently at which the CERCLA/RCF is that are received (or are expected any).	ed that it will) receive waste from remedial activities?  rent and future site.  RA/or other remedial waste originates (or is expected to originate originate).  Include data on volume and concentration,
	Pollutants. List the mown. (Attach addit	ER, AND OTHER RE  Does the treatment of F.13 through F.15.)  s and the requested information of the site and type	works currently (or has it been notification in the company of formation (F.13 - F.15.) for each currently at which the CERCLA/RCF is that are received (or are expected any).	ed that it will) receive waste from remedial activities?  rent and future site.  RA/or other remedial waste originates (or is expected to originate originate).  Include data on volume and concentration,
F.13. \\ F.1	Pollutants. List the anown. (Attach addit	ER, AND OTHER RE  Does the treatment of F.13 through F.15.)  s and the requested information of the site and type	works currently (or has it been notification in the company of formation (F.13 - F.15.) for each currently at which the CERCLA/RCF is that are received (or are expected any).	ed that it will) receive waste from remedial activities?  rent and future site.  RA/or other remedial waste originates (or is expected to originate or is expected or is expected to originate originate or is expected to originate originate originate originate originate originate ori
.13. Vi	Pollutants. List the anown. (Attach addit	ER, AND OTHER RE  Does the treatment of F.13 through F.15.)  s and the requested informibe the site and type of th	works currently (or has it been notification in the companies of facility at which the CERCLA/RCF is that are received (or are expected ary).	ed that it will) receive waste from remedial activities?  rent and future site.  RA/or other remedial waste originates (or is expected to originate or is expected or is expected to originate originate or is expected to originate originate originate origi

**2A YOU MUST COMPLETE** 

FACI	LIT	Y NAME AND PERMI	IT NUMBER:			Form Approved 1/14/99
Riner				N/A		OMB Number 2040-0086
SU	PP	LEMENTAL A	PPLICATION	INFORMATION		
PAF	₹T (	G. COMBINED S	SEWER SYSTEMS	3		
If the	tre	atment works has a	combined sewer syst	tem, complete Part G.		
G.1.	Sys	tem Map. Provide a	map indicating the follo	owing: (may be included with I	Basic Application Information)	
	a.	All CSO discharge po	oints.			
	b.	Sensitive use areas poutstanding natural re	potentially affected by ( resource waters).	CSOs (e.g., beaches, drinking	g water supplies, shellfish beds, sensi	tive aquatic ecosystems, and
	C.	Waters that support f	threatened and endanç	gered species potentially affect	ted by CSOs.	
G.2.	Sys tha	stem Diagram. Provide t includes the following	de a diagram, either in g information:	the map provided in G.1. or o	n a separate drawing, of the combine	ed sewer collection system
	a.	Locations of major so	ewer trunk lines, both c	combined and separate sanital	ry.	
	b.	Locations of points w	here separate sanitary	y sewers feed into the combine	ed sewer system.	
			and off-line storage struc	ctures.		
		Locations of flow-regi				
	e.	Locations of pump sta	ations.			
cso	OU	JTFALLS:				<b>建设设施</b>
Comp	olete	questions G.3 thro	ugh G.6 once for eac	h CSO discharge point.		
G.3. [	Desc	cription of Outfall.				
	a.	Outfall number				
	b.	Location	(City or town, if applic	cable)	(Zip Code)	
			(County)		(State)	
			(Latitude)		(Longitude)	
	C	Distance from shore (	(if annlicable)		a	
		Depth below surface (		_	ft.	

G.4. CSO Events.

\_Rainfall

\_CSO flow volume

a. Give the number of CSO events in the last year.

\_\_\_\_\_ events (\_\_\_ actual or \_\_\_ approx.)

f. How many storm events were monitored during the last year?

e. Which of the following were monitored during the last year for this CSO?

\_CSO pollutant concentrations

\_Receiving water quality

\_CSO frequency

b. Give the average duration per CSO event.

\_\_\_\_\_ hours (\_\_\_\_ actual or \_\_\_\_ approx.)

FACIL	ITY	NAME AND PERMIT NUMBER			Form Approved 1/14/99
Riner S	STP	VA0024040		N/A	OMB Number 2040-0086
c	;. (	Give the average volume per CS	O event.		
	-	million gallons (	actual or	approx.)	
c	i. (	Give the minimum rainfall that ca	used a CSO eve	ent in the last year.	
		inches of rainfall			
G.5. D	esc	ription of Receiving Waters.			
а	i. 1	Name of receiving water:			
b					
	l	United States Soil Conservation	Service 14-digit	watershed code (if know	vn):
С	. 1	Name of State Management/Rive	er Basin:		
	ι	United States Geological Survey	8-digit hydrologi	c cataloging unit code (	if known):
G.6. CS	<b>SO</b> (	Operations.			
р	em	nanent or intermittent shell fish be ty standard).	ed closings, fish	kills, fish advisories, oth	this CSO (e.g., permanent or intermittent beach closings, ner recreational loss, or violation of any applicable State water
REF	ER	R TO THE APPLICAT		END OF PARTIVIEW TO DETE	ERMINE WHICH OTHER PARTS OF FORM

## VPDES PERMIT APPLICATION ADDENDUM - SUPPLEMENTARY INFORMATION

A.	G	eneral Information
	1. 2.	Entity to whom the permit is to be issued: Montgomery County Public Service Authority  Montgomery County Public Service Authority  Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? This may or may not be the facility or property owner.
	2.	Classify the discharge as one of the following by checking the appropriate line:
		X a. Existing discharge
		b. Proposed discharge
		c. Proposed expansion of an existing discharge MAR 2 4 2008
B.	Loc	eation
		DEQ-WCRC
	1.	Is this facility located within city or town boundaries? No
	2.	(New Issuances & Modifications Only) What is the tax map parcel number for the land where this facility is located? <u>035261</u>
	3.	For the facility to be covered by this permit, how many acres will be disturbed during the next five years due to new construction activities?0
	4.	What is the total acreage of the property on which the treatment plant is located? acres
	5.	Give the minimum elevation of the treatment plant site
	6.	Flood elevations of the treatment plant site:  25 year flood 2016 Est. feet  100 year flood 2034 feet
	7.	Attach to the back of this application a location map(s) which may be traced from or is/are a production of a U.S. Geological Survey topographic quadrangle(s) or other appropriately scaled contour map(s). The location map(s) shall show the following: SEE ATTACHMENT # 2
		<ul><li>a. Treatment Plant</li><li>b. Discharge point</li></ul>
		c. Receiving waters
		d. Boundaries of the property on which the treatment plant is located, and a back of
		greater than 2000 feet)  i. Residence ii. Distribution line for potable water supply iii. Reservoir, well, or other source of water supply iv. Recreational area
		f. Distance from the discharge point to the nearest:  (Indicate "not applicable" for any distance greater than 15 miles)  i. Downstream community  ii. Upstream and downstream water intake points  iii. Shellfishing waters  iv. Wetlands area

v. Downstream impoundment

	-		
V1.	Downstream	recreational	area

0	D: 1	D .	. •
C.	<b>Discharge</b>	Descri	ption

1. Provide a brief description of the wastewater treatment scheme. Also, attach to the back of this application, a process flow diagram showing each process unit of the treatment plant, including all bypass piping and all backup power sources or redundancy in the system. SEE ATTACHMENT # 2

2.	What is the design average flow of this facility? MGD MGD Industrial facilities: What is the max. 30-day avg. production level (include units)? NA
3.	In addition to the above design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels? <u>No</u>
	If "Yes", please specify the other flow tiers (in MGD) or production levels:
	Please consider: Is your facility's design flow considerably greater than your current flow? Do you plan to expand operations during the next five years?
4.	Nature of operations generating wastewater: All domestic sewage
	95 % of flow from domestic connections/sources
	Number of private residences to be served by the wastewater treatment facilities:
	$\underline{}$ 0 $\underline{}$ 1-49 $\underline{}$ 50 or more
	_5_% of flow from non-domestic connections/sources
5.	Mode of discharge: _X_ContinuousIntermittentSeasonal Describe frequency and duration of intermittent or seasonal discharges:
6.	Identify the characteristics of the receiving stream at the point just above the facility's
	discharge point:
	X Permanent stream, never dry
	Intermittent stream, usually flowing, sometimes dry
	Ephemeral stream, wet-weather flow, often dry
	Effluent-dependent stream, usually or always dry
	Lake or pond at or below the discharge point
	Other:

E.	Anticipated Phasing Schedule for Plant Capacity - Proposed / Expanding Discharges	
	If this application is for a proposed or expanded discharge(s), complete the phasing schedule below beginning with the year in which construction completion is anticipated and progressing in increments of 5 years for 30 years thereafter.	
	Proposed Design Capacity: NA MGD	
	Anticipated Date of Construction Completion:  Month Year	
	Years after Completion Projected Flow (MGD)	
	0 5 10 15 20 25 30	
F.	Interim Facilities NA  Are the wastewater treatment facilities interim? (designed for a useful life of less than 5 years)	
	Name / Location	

## VPDES SEWAGE SLUDGE PERMIT APPLICATION FORM

## SCREENING INFORMATION

This application is divided into four sections. Section A pertains to all applicants. The application of the determine which sections to fill out.

depends on your facility's sewage sludge use or disposal practices. The information provided on this page will help you MAR 24 2008 All applicants must complete Section A (General Information). 2. Does this facility generate sewage sludge? \_\_\_\_\_ Yes \_\_\_\_\_ No **DEQ-WCRO** Does this facility derive a material from sewage sludge? \_\_\_\_ Yes \_\_\_\_ No

If you answered "Yes" to either, complete Section B (Generation Of Sewage Sludge or Preparation Of A Material Derived From Sewage Sludge).

 Does this facility apply sewage sludge to the land? \_\_\_\_\_ Yes \_\_\_\_ No Is sewage sludge from this facility applied to the land? Yes \_\_\_\_ No If you answer "No" to all above, skip Section C.

If you answered "Yes" to either, answer the following three questions:

- Does the sewage sludge from this facility meet the ceiling concentrations, pollutant concentrations, Class A pathogen reduction requirements and one of the vector attraction reduction requirements 1-8, as identified in the instructions? \_\_\_\_ Yes \_ No
- b. Is sewage sludge from this facility placed in a bag or other container for sale or give-away for application to the land? Yes No
- c. Is sewage sludge from this facility sent to another facility for treatment or blending? \_\_\_\_\_ Yes \_\_\_\_\_ No

If you answered "No" to all three, complete Section C (Land Application Of Bulk Sewage Sludge).

If you answered "Yes" to a, b or c, skip Section C.

Do you own or operate a surface disposal site? \_\_\_\_\_ Yes \_\_\_\_ No

If "Yes", complete Section D (Surface Disposal).

FACILITY NAME: RINER STP VPDES PERMIT NUMBER: VA 0024040

## SECTION A. GENERAL INFORMATION

All applicants must complete this section.

•	Fac	cility Information.
	a.	Facility name: RINER STP
	b.	Contact person: BRUCE R. TONES
		Title: WATER / WASTEWATER SUPERVISOR
		Phone: (540) 268-5143
	c.	Mailing address:
		Street or P.O. Box: 755 ROANOKE St. Suite 2-7
		Street or P.O. Box: 755 ROANOKE St. Suite 2-I City or Town: Christians burg State: VA. Zip: 24073
)	d.	Facility location:
		Street or Route #: 4351 RINER Rd.
		County: MONTGOMERY
		Chy of Town: RINER State: VA: 7in: 24119
6	е.	is this facility a Class I sludge management facility? Yes  No
1	f.	Facility design flow rate: O. /O mgd
٤	3.	Total population served: 250
ł	1.	Indicate the type of facility:
	1	Publicly owned treatment works (POTW)
		Privately owned treatment works
		Federally owned treatment works
		Blending or treatment operation
	:=	Surface disposal site
	-	Other (describe):
A	ppl	licant Information. If the applicant is different from the above, provide the following:
a.	. 1	Applicant name: Montgomery County Public SERVICE Authority
b.	. 1	vianing address:
	S	Street or P.O. Box: 755 ROBNOKE St., Suite 2-I
	(	City or Town: Christiansburg State: VA. Zip: 24073
c.	(	City or Town: Christiansburg State: VA. Zip: 24073 Contact person: BRUCE R. JONES
	1	III. WHIER JOYASIEWATER SURERVISOR
	Р	Thone: ( <u>540</u> ) <u>268-5143</u>
d.		s the applicant the owner or operator (or both) of this facility?  owner  operator
e.	S	hould correspondence regarding this permit be directed to the facility or the applicant?  facility applicant
Pe	rmi	it Information.
a.	Fa	acility's VPDES permit number (if applicable):
b.	Li	ist on this form or an attachment, all other federal, state or local permits or construction approvals received or oplied for that regulate this facility's sewage sludge management practices:
	Pe	ermit Number: Type of Permit:
22	iewa.	ge Sludge Dawnit Analiset's Established

2.

3.

4.	Towns J. Does any generation from the contract of the contract				
	facility occur in Indian Country? Yes No If "Yes", describe:				
5.	Topographic Map. Provide a topographic map or maps (or other appropriate maps if a topographic map is unavailable) that shows the following information. Maps should include the area one mile beyond all property boundaries of the facility:  SEE ATTACHMENT # 4				
	<ul> <li>a. Location of all sewage sludge management facilities, including locations where sewage sludge is generated, stored, treated, or disposed.</li> <li>b. Location of all wells, springs, and other surface water bodies listed in public records or otherwise known to the applicant within 1/4 mile of the property boundaries.</li> </ul>				
6.	Line Drawing. Provide a line drawing and/or a <u>narrative description</u> that identifies all sewage sludge processes that will sewage sludge, the term of the permit including all processes used for collecting, dewatering, storing, or treating and vector attraction reduction.  SEE ATTACHMENT # 5				
7.	treatment, use or disposal the responsibility of a contractor?  Yes No.				
	If "Yes", provide the following for each contractor (attach additional pages if necessary)				
	Name:				
	Mailing address:				
	Street or P.O. Box:				
	City or Town: State: Zip:				
	Phone: ( ) Zip:				
	Contractor's Federal, State or Local Permit Number(s) applicable to this facility's sewage sludge:				

If the contractor is responsible for the use and/or disposal of the sewage sludge, provide a description of the service to be provided to the applicant and the respective obligations of the applicant and the contractor(s).

8. Pollutant Concentrations. Using the table below or a separate attachment, provide sewage sludge monitoring data for the pollutants which limits in sewage sludge have been established in 9 VAC 25-31-10 et seq. for this facility's expected use or disposal practices. All data must be based on three or more samples taken at least one month apart and must be no more than four and one-half years old.

SEE ATTACHMENT # 6

	CONCENTRATION	SAMPLE	ANALYTICAL	DETER CITY OF THE
POLLUTANT	(mg/kg dry weight)	DATE	METHOD	DETECTION LEVE FOR ANALYSIS
Arsenic	0.02	3-4-08		
Cadmium	0.04		EPA 200.7	0.005 M
Chromium	0.19	3-4-08	EPA 200.7	0.00 / mg
Copper	6.37	3-4-08	EPA 200.7	0.005 mg
Lead	0.53	3-4.08	EPA 200.7	0.005 mg/
Mercury	0.002	3-4-08	EPA 200.7	0.005 mg/
Molybdenum	0.06	3.4-08	EPA 245.1	0.0002 mg/1
Nickel	0.21	3-4-08	EPA 200.7	0.005 mg/c
Selenium	0.07	3-4-08	EPA 200.7	0.005 male
Zinc	15.2	3-4-08	EPA 200.7	0.005 mg/c
	13.2	3-4-08	EPA 200.7	0.005 mg/L

FACILITY NAME: Riner STP	VPDES PERMIT NUMBER: VA0024040
I	VIDESTERVITI NUMBER: VAUUZ4040

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and official title Robert C. Fronk, PSA Director

Signature Date Signed May 8, 2008

Telephone number \_\_\_\_\_\_540-381-1997

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Upon request of the department, you must submit any other information necessary to assess sewage sludge questions disposal practices at your facility or identify appropriate permitting requirements.

DEQ-WCRO

RECEIVED

MAY 0 9 2008

**DEQ-WCRO** 

FACILITY NAME:	RINER	STP	
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VPDES PERMIT NUMBER: <u>VA 00240</u>40

# SECTION B. GENERATION OF SEWAGE SLUDGE OR PREPARATION OF A MATERIAL DERIVED FROM SEWAGE SLUDGE

Complete this section if your facility generates sewage sludge or derives a material from sewage sludge

	1.	Amount Generated On Site.  Total dry metric tons per 365-day period generated at your facility: dry metric tons					
	2.	Amount Received from Off Site. If your facility receives sewage sludge from another facility for treatment, use or disposal, provide the following information for each facility from which sewage sludge is received. If you receive sewage sludge from more than one facility, attach additional pages as necessary.					
		a. Facility name:					
		b. Contact Person:					
		Title:					
		Phone: ( )					
	(	c. Mailing address:					
		Street or P.O. Box:					
		City or Town: State: Zip:					
	c	I. Facility location:					
		(not P.O. Box)					
	е						
	f	Describe, on this form or on another sheet of paper, any treatment processes known to account to the control of					
		including blending activities and treatment to reduce pathogens or vector attraction characteristics:					
3.	. Т	reatment Provided at Your Facility.					
	a	Class A Class B Neither or unknown					
	b.	Describe, on this form or another sheet of paper, any tractment and the same and th					
		pathogens in sewage sludge: AERObic digestion to meet the Regulariments of  Which vector attraction reduction activities artistics and the standard of the sector attraction reduction activities artistics.					
- VAC	- 7	5-31-560 (Class B - Alternative #1)					
	c.	Which vector attraction reduction option is met for the sewage sludge at your facility?					
		Option 1 (Minimum 38 percent reduction in volatile solids)					
		Option 2 (Anaerobic process, with bench-scale demonstration)					
		Option 3 (Aerobic process, with bench-scale demonstration)					
		Option 4 (Specific oxygen uptake rate for aerobically digested sludge)					
		Option 5 (Aerobic processes plus raised temperature)					
		Option 6 (Raise pH to 12 and retain at 11.5)					
		Option 7 (75 percent solids with no unstabilized solids)					
		Option 8 (90 percent solids with unstabilized solids)					
		None or unknown					
	d.	Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce vector					
		attraction properties of sewage sludge:					
		attraction properties of sewage sludge: <u>MERObic Sludge digestion</u> to Achieve AN  SOUR of < 1.5 mg/02/H/g tos					
	e.	10 10 10 10 10 10 10 10 10 10 10 10 10 1					
	~*	Describe, on this form or another sheet of paper, any other sewage sludge treatment activities, including					
Rom	E	blending, not identified in a - d above: <u>Sludge from Riner STP</u> is blended with sludge from Riner STP is blended with sludge from Swape Sludge Permit Application Form (2000 Days)					
		Showsville					
VPI	DES S	Sewage Sludge Permit Application Form (2000 Rev.)					

FA	CI	LITY NAME: <u>RINER STP</u> VPDES PERMIT NUMBER: <u>VA 002404</u> 0
4.	P	reparation of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen Requirements and one of Vector Attraction Reduction Options 1-8 (EQ Sludge).
		f sewage sludge from your facility does not meet all of these criteria, skip Question 4.)
	a.	Total dry metric tons per 365-day period of sewage sludge subject to this section that is applied to the land:
		dry metric tons
	b.	Is sewage sludge subject to this section placed in bags or other containers for sale or give-away?  Yes No
5.	Sa	lle or Give-Away in a Bag or Other Container for Application to the Land.
	10	omplete this question if you place sewage sludge in a bag or other container for sale or give-away prior to land plication. Skip this question if sewage sludge is covered in Question 4.)
	a.	Total dry metric tons per 365-day period of sewage sludge placed in a bag or other container at your facility for
		sale or give-away for application to the land: dry metric tons
	b.	Attach, with this application, a copy of all labels or notices that accompany the sewage sludge being sold or given away in a bag or other container for application to the land.
ó.	Sh	ipment Off Site for Treatment or Blending.
	Ski fac	omplete this question if sewage sludge from your facility is sent to another facility that provides treatment or inding. This question does not apply to sewage sludge sent directly to a land application or surface disposal site. ip this question if the sewage sludge is covered in Questions 4 or 5. If you send sewage sludge to more than one illity, attach additional sheets as necessary.)
	a.	Receiving facility name: Shawsville STP
	b.	Facility contact: BRUCE R. JONES  Title: WATER / WASTEWATER SUPERVISOR  Phone: (540) 268-5/43
	c.	Mailing address:
		Street or P.O. Box: 755 Ronnoke St., Svite 2-T  City or Town: Christiansburg State: VA. Zip: 24073
		City or Town: Chaistiansburg State: VA. Zin: 24192
Ĭ	d.	Total dry metric tons per 365-day period of sewage sludge provided to receiving facility:
		dry metric tons
,	€.	List, on this form or an attachment, the receiving facility's VPDES permit number as well as the numbers of all other federal, state or local permits that regulate the receiving facility's sewage sludge use or disposal practices:
		Permit Number: Type of Permit:
	V	AOO24031 VPSES PERMIT
V	40	024031-4 CERTIFICATE TO OPERATE
f	•	Does the receiving facility provide additional treatment to reduce pathogens in sewage sludge from your facility?  Yes No
		Which class of pathogen reduction is achieved for the sewage sludge at the receiving facility?  Class A Class B Neither or unknown
		Describe, on this form or another sheet of paper, any treatment processes used at the receiving for this
		pathogens in sewage sludge: No Additional pathogen REduction is achieved
g	. ]	Does the receiving facility provide additional treatment to reduce vector attraction characteristics of the sewage sludge? Yes No
	1	Which vector attraction reduction option is met for the sewage sludge at the receiving facility?
	-	Option 1 (Minimum 38 percent reduction in volatile solids)

	VPDES PERMIT NUMBER: VA 0024040
	Option 2 (Anaerobic process, with bench-scale demonstration)
	Option 3 (Aerobic process, with bench-scale demonstration)
	Option 4 (Specific oxygen uptake rate for aerobically digested sludge)
	Option 5 (Aerobic processes plus raised temperature)
	Option 6 (Raise pH to 12 and retain at 11.5)
	Option 7 (75 percent solids with no unstabilized solids)
	Option 8 (90 percent solids with unstabilized solids)
	None unknown
	Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to reduce
	vector attraction properties of sewage sludge: No Additional VECTOR Attraction REDVE
1.	Yes No
	If "Yes", describe, on this form or another sheet of paper, the treatment processes not identified in f or g above:  Riner sludge is blended with sludge fram Elliston  and Shawsville STP
	If you answered "Yes" to f, g or h above, attach a copy of any information you provide to the receiving facility to comply with the "notice and necessary information" requirement of 9 VAC 25-31-530.G. SEE ATTACHMENT
	Does the receiving facility place sewage sludge from your facility in a bag or other container for sale or give-away for application to the land? Yes No
	If "Yes", provide a copy of all labels or notices that accompany the product being sold or given away.
	Will the sewage sludge be transported to the receiving facility in a truck-mounted watertight tank normally used for such purposes? Yes No. If "No", provide description and specification on the vehicle used to transport the sewage sludge to the receiving facility.
	Show the haul route(s) on a location map or briefly describe the haul route below and indicate the days of the week
	and the times of the day sewage sludge will be transported. SEE ATTACHMENT A 9
	nd Application of Bulk Sewage Sludge.
o	emplete Question 7.a if sewage sludge from your facility is applied to the land, unless the sewage sludge is covered in estions 4, 5 or 6. Complete Question 7.b, c & d only if you are responsible for land application of sewage sludge.)
	Total dry metric tons per 365-day period of sewage sludge applied to all land application sites:
	dry metric tons
	dry metric tons  Do you identify all land application sites in Section C of this application? Yes No  If "No", submit a copy of the Land Application Plan (LAP) with this application (LAP) with this application (LAP)
	Do you identify all land application sites in Section C of this application?  Yes  No

7.

ACI	ILITY NAME: KINER 57P VPDES PERMIT NUMBER: VA 002404						
	Surface Disposal.						
(	Complete Question 8 if sewage sludge from your facility is placed on a surface disposal site.)						
a.							
	sites: dry metric tons						
b.	<ul> <li>b. Do you own or operate all surface disposal sites to which you send sewage sludge for disposal?</li> <li>Yes No</li> </ul>						
	If "No", answer questions c - g for each surface disposal site that you do not own or operate. If you send sewage sludge to more than one surface disposal site, attach additional pages as necessary.						
c.							
d,	Contact person:						
	Title:						
	Phone: ()						
	Contact is: Site Owner Site operator						
e.							
	Street or P.O. Box:						
	City or Town: State: Zip:						
f.	Total dry metric tons per 365-day period of sewage sludge from your facility placed on this surface disposal						
	site: dry metric tons						
	federal, state or local permits that regulate the sewage sludge use or disposal practices at the surface disposal site:  Permit Number:  Type of Permit:						
	cineration. N/A						
(Co	omplete Question 9 if sewage sludge from your facility is fired in a sewage sludge incinerator.)						
a.	Total dry metric tons per 365-day period of sewage sludge from your facility fired in a sewage sludge						
	incinerator: dry metric tons						
b.	Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired?  Yes No						
	If "No", answer questions c - g for each sewage sludge incinerator that you do not own or operate. If you send sewage sludge to more than one sewage sludge incinerator, attach additional pages as necessary.						
c.	Incinerator name or number:						
	Phone: ( )						
	Contact is: Incinerator Owner Incinerator Operator						
e.	Mailing address:						
	Street or P.O. Box:						
1	City or Town: State: Zip:						
f.	Total dry metric tons per 365-day period of sewage sludge from your facility fired in this sewage sludge						
	incinerator: dry metric tons						
	List on this form or an attachment the numbers of all other federal, state or local permits that regulate the firing						

9.

rac		of sewage sludge at this incinerator:  Permit Number:  Type of Permit Number:	NIA	VPDES PER	RMIT NUMBER: <u>VA 00240</u> 40
fe fe	Con ollo	posal in a Municipal Solid Waste La nplete Question 10 if sewage sludge j wing information for each municipa age sludge is placed on more than on	from your facility i Il solid waste landfi	s placed on a muni	icipal solid waste landfill. Provide the e sludge from your facility is placed. If h additional pages as necessary)
a b	. I . ( T	Landfill name:			
c.	N S	Contact is: Landfill Owner  Mailing address:  Street or P.O. Box:	Landfill Ope	erator	
d.	L	City or Town:  Landfill location.  Street or Route #:  County:  City or Town:		State:	Zip:
e.	Т	otal dry metric tons per 365-day perio	od of sewage sludge	e placed in this mur	nicipal solid waste landfill:
f.	***		rmit:	eral, state or local p	permits that regulate the operation of this
g.	00	oes sewage sludge meet applicable re 0-10 et seq., concerning the quality of Yes No	equirements in the V f materials disposed	rirginia Solid Waste in a municipal soli	e Management Regulation, 9 VAC 20-d waste landfill?
h. i.	Do M W	oes the municipal solid waste landfill anagement Regulation, 9 VAC 20-80 ill the vehicle bed or other container	7-10 et seq.?	Yes No	
	Sh	now the haul route(s) on a location made time of the day sewage sludge will lo	ap or briefly describ	e the route below a	nd indicate the days of the week

## SECTION C. LAND APPLICATION OF BULK SEWAGE SLUDGE

NA

Complete this section for sewage sludge that is land applied unless any of the following conditions apply:

- The sewage sludge meets the Table 1 ceiling concentrations, the Table 3 pollutant concentrations, Class A pathogen requirements and one of the vector attraction reduction options 1-8 (fill out B.4 instead) (EQ Sludge); or
- The sewage sludge is sold or given away in a bag or other container for application to the land (fill out B.5 instead); or
- You provide the sewage sludge to another facility for treatment or blending (fill out B.6 instead).

•		dentification of Land Application Site.		
	a.			
	b.	(Complete I and II)		
		i. Street or Route#:		
		County:		
		City or Town:	State:	Zip:
		ii. Latitude: Longitude:		
		Method of latitude/longitude determination USGS map Filed survey		
	c.	Topographic map. Provide a topographic map (or other appshows the site location.	propriate map if a	topographic map is unavailable) that
	Ow	wner Information.		
	a.	Are you the owner of this land application site? Yes	No	
	b.	If "No", provide the following information about the owner:		
		Name:		
		Street or P.O. Box:		
		City or Town:	State:	Zip:
		Phone: ( )		
Applier Information:				
	a.	Are you the person who applies, or who is responsible for ap	oplication of, sew	age sludge to this land application sit
	b.	If "No", provide the following information for the person wh	o applies the sew	vage sludge:
		Name:		ange stange.
		Street or P.O. Box:		
		City or Town:	State:	Zin:
		Phone: ( )		
•	c.	List, on this form or an attachment, the numbers of all federa applies sewage sludge to this land application site:		ermits that regulate the person who
		Permit Number: Type of Permit:		
9	Site	e Type. Identify the type of land application site from among	the following:	
_		Agricultural landReclamation site	Forest	
		Public contact site Other (describe		
		(00001100		

-		LITY NAME: KINER 57	VPDES PERMIT NUMBER: <u>VA 00240</u> 48			
		Yes No If "Yes", answer a a				
-	a.	Indicate which vector attraction reductio	on option is met:			
		Option 9 (Injection below land su	rface)			
		Option 10 (Incorporation into soil				
ł	b.	Describe, on this form or on another sheet of paper, any treatment processes used at the land application site to reduce the vector attraction properties of sewage sludge:				
		umulative Loadings and Remaining Allo				
p	(Ca pol	omplete Question 6 only if the sewage sludge applied to this site since July 20, 1993 is subject to the cumulative lutant loading rates (CPLRs) - see instructions.)				
а	ι.	Have you contacted DEQ or the permittir be applied to ascertain whether bulk sewa 1993? Yes No	ng authority in the state where the sewage sludge subject to the CPLRs will age sludge subject to the CPLRs has been applied to this site since July 20,			
		If "No", sewage sludge subject to the CPI	LRs may not be applied to this site.			
		If "Yes", provide the following information				
		Permitting authority:				
		Contact person:				
		Phone: ()				
b.		Based upon this inquiry, has bulk sewage	sludge subject to the CPLRs been applied to this site since July 20, 1993? rest of Question 6. If "Yes", answer questions c - e.			
c.		Site size, in hectares:(one	e hectare = 2.471 acres)			
	d. Provide the following information for every facility other than yours that is sending or has sent sewage to the CPLRs to this site since July 20, 1993. If more than one such facility sends sewage sludge to this additional pages as necessary.					
d.		to the CI Like to this site since July 20, 19	ry facility other than yours that is sending or has sent sewage sludge subject 93. If more than one such facility sends sewage sludge to this site, attach			
d.		additional pages as necessary.	93. If more than one such facility sends sewage sludge to this site, attach			
d.		additional pages as necessary.  Facility name:	93. If more than one such facility sends sewage sludge to this site, attach			
d.		additional pages as necessary.  Facility name:  Facility contact:	93. If more than one such facility sends sewage sludge to this site, attach			
d.		additional pages as necessary.  Facility name:  Title:	93. If more than one such facility sends sewage sludge to this site, attach			
d.		additional pages as necessary.  Facility name:  Facility contact:	93. If more than one such facility sends sewage sludge to this site, attach			
d.		additional pages as necessary.  Facility name:  Facility contact:  Title:  Phone: ( )	93. If more than one such facility sends sewage sludge to this site, attach			
d.		additional pages as necessary.  Facility name:  Facility contact:  Title:  Phone: ( )	93. If more than one such facility sends sewage sludge to this site, attach			
d.	ì	additional pages as necessary.  Facility name:  Facility contact:  Title:  Phone: ( )  Mailing address.  Street or P.O. Box:  City or Town:	93. If more than one such facility sends sewage sludge to this site, attach  State: Zip:			
	ì	additional pages as necessary.  Facility name:  Facility contact:  Title:  Phone: ()  Mailing address.  Street or P.O. Box:  City or Town:  Provide the total loading and allotment ren	93. If more than one such facility sends sewage sludge to this site, attach  State: Zip:  naining, in kg/hectare, for each of the following pollutants:			
	ì	additional pages as necessary.  Facility name:  Facility contact:  Title:  Phone: ( )  Mailing address.  Street or P.O. Box:  City or Town:	93. If more than one such facility sends sewage sludge to this site, attach  State: Zip: naining, in kg/hectare, for each of the following pollutants:			
	ì	additional pages as necessary.  Facility name:  Facility contact:  Title:  Phone: ()  Mailing address.  Street or P.O. Box:  City or Town:  Provide the total loading and allotment rem  Cumulative load	State: Zip: naining, in kg/hectare, for each of the following pollutants:  Allotment remaining  Allotment remaining			
	ì	additional pages as necessary.  Facility name:  Facility contact:  Title:  Phone: ( )  Mailing address.  Street or P.O. Box:  City or Town:  Provide the total loading and allotment rem  Cumulative load  Arsenic	93. If more than one such facility sends sewage sludge to this site, attach  State: Zip:  naining, in kg/hectare, for each of the following pollutants:			
	ì	additional pages as necessary.  Facility name:  Facility contact:  Title:  Phone: ( )  Mailing address.  Street or P.O. Box:  City or Town:  Provide the total loading and allotment rem  Cumulative load  Arsenic  Cadmium	State: Zip: naining, in kg/hectare, for each of the following pollutants:  Allotment remaining  Allotment remaining			
	ì	additional pages as necessary.  Facility name:  Facility contact:  Title:  Phone: ( )  Mailing address.  Street or P.O. Box:  City or Town:  Provide the total loading and allotment ren  Cumulative load  Arsenic  Cadmium  Copper	State: Zip: naining, in kg/hectare, for each of the following pollutants:  Allotment remaining  Allotment remaining			
	ì	additional pages as necessary.  Facility name:  Facility contact:  Title:  Phone: ()  Mailing address.  Street or P.O. Box:  City or Town:  Provide the total loading and allotment ren  Cumulative load  Arsenic  Cadmium  Copper  Lead	State: Zip: naining, in kg/hectare, for each of the following pollutants:  Allotment remaining  Allotment remaining			
	ì	additional pages as necessary.  Facility name:  Facility contact:  Title:  Phone: ( )  Mailing address.  Street or P.O. Box:  City or Town:  Provide the total loading and allotment rem  Cumulative load  Arsenic  Cadmium  Copper  Lead  Mercury	State: Zip: naining, in kg/hectare, for each of the following pollutants:  Allotment remaining  Allotment remaining			

Complete Questions 7-12 below only if you apply sewage sludge, or you are responsible for land application of sewage sludge. Information required by these questions may be prepared as attachments to this form. Skip the following questions if you contract land application to someone else (as indicated under Section A.7) who is responsible for the operation.

FA	ACILITY NAME: <u>RINER STP</u> VPDES PERMIT NUMBER: <u>VA 00240</u> 40	
7.		1/1
	PCBs (mg/kg)	1//
	pH (S. U.)	
	Percent Solids (%)	
	Ammonium Nitrogen (mg/kg)	
	Nitrate Nitrogen (mg/kg)	
	Total Kjeldahl Nitrogen (mg/kg)	
	Total Phosphorus (mg/kg)	
	Total Potassium (mg/kg)	
	Alkalinity as CaCO <sub>3</sub> * (mg/kg)	
	* Lime treated sludge (10% or more lime by dry weight) should be analyzed for percent CaCO <sub>3</sub> .	
8.	Storage Requirements.	
	Existing and proposed sludge storage facilities must provide an estimated annual sludge balance on a monthly basis	
	incorporating such factors as storage capacity, sludge production and land application schedule. Include pertinent	
	calculations Justifying storage requirements.	
	Proposed sludge storage facilities must also provide the following information:	
	a. A sludge storage site layout on a 7.5 minute topographic quadrangle or other appropriate scaled map to show the following topographic features of the surrounding landscape to a distance of 0.25 mile. Clearly mark the property line.	
	<ol> <li>Water wells, abandoned or operating</li> <li>Surface waters</li> <li>Springs</li> <li>Public water supply(s)</li> </ol>	
	<ul><li>5) Sinkholes</li><li>6) Underground and/or surface mines</li></ul>	
	7) Mine pool (or other) surface water discharge points	
	8) Mining spoil piles and mine dumps	
	9) Quarry(s) 10) Sand and gravel pits	
	11) Gas and oil wells	
	12) Diversion ditch(s)	
	<ul><li>13) Agricultural drainage ditch(s)</li><li>14) Occupied dwellings, including industrial and commercial establishments</li></ul>	
	15) Landfills or dumps	
	16) Other unlined impoundments	
	17) Septic tanks and drainfields 18) Injection wells	
	19) Rock outcrops	
	b. A topographic map of sufficient detail to clearly show the following information:	
	Maximum and minimum percent slopes	
	2) Depressions on the site that may collect water	
	3) Drainageways that may attribute to rainfall run-on to or runoff from this site 4) Portions of the site (if any) which are located with the 100 years floodylain and be site.	
	4) Portions of the site (if any) which are located with the 100-year floodplain and how the storage facility will be protected from flooding	
	c. Data and specifications for the storage facility lining material.	
	d. Plan and cross-sectional views of the storage facility.	
	of the storage racinty.	

9. Land Area Requirements. Provide calculations justifying the land area requirements for land application of sewage

e. Depth from the bottom of the storage facility to the seasonal high water table and separation distance to the permanent

water table.

FA	CIL	ITY NAME: <u>RINER STP</u> VPDES PERMIT NUMBER: <u>VA 00 240</u> 40
	sev (Cl	dge taking into consideration average soil productivity group, crop(s) to be grown and most limiting factor(s) of the wage sludge, specifically Plant Available Nitrogen (PAN), Calcium Carbonate Equivalence (CCE), and metal loadings PLR sewage sludge only), where applicable. Relate PAN, CCE, and metal loadings to demonstrate the most limiting tor for land application.
10.	La for	ndowner Agreement Forms. Provide a properly completed Sewage Sludge Application Agreement Form (attached) each landowner if sewage sludge is to be applied onto land not owned by the applicant.
11.	Gr	ound Water Monitoring.
	Are	e any ground water monitoring data available for this land application site? Yes No
	If " we	Yes", submit the ground water monitoring data with this permit application. Also submit a written description of the ll locations, approximate depth to ground water, and the ground water monitoring procedures used to obtain these data.
12.	La	nd Application Site Information.
	rate	omplete Items a-d for sites receiving infrequent application - land application of sewage sludge up to the agronomic e at a frequency of once in a 3 year period; complete Items a-h for sites receiving frequent application - land plication of sewage sludge in excess of 70% the agronomic rate at a frequency greater than once in a 3 year period)
	a.	Provide a general location map for each county which clearly indicates the location of all the land application sites.
	b.	For each land application site provide a site plan of sufficient detail to clearly show the concerned landscape features and associated buffer zones (See instructions). Provide a legend for each landscape feature and the net acreage for each field taking into account the proposed buffer zones.
	c.	In order to ensure that land application of bulk sewage sludge will not impact federally listed threatened or endangered species or federally designated critical habitat, the applicant must notify the field office of the U. S. Department of the Interior, Fish and Wildlife Service (FWS), by a letter, the proposed land application activities with the identification of the land application sites. The address and phone number of FWS are provided below.
		U.S. Fish and Wildlife Service Virginia Field Office P.O. Box 480 White Marsh, VA 23183 TEL: (804) 693-6694

Provide a copy of the notification letter with this application form.

 d. Provide a soil survey map, preferably photographically based, with the field boundaries clearly marked. (A USDA-SCS soil survey map should be provided, if available.)

Provide a detailed legend for each soil survey map which uses accepted USDA-SCS descriptions of the typifying pedon for each soil series (soil type). Complex associations may be described as a range of characteristics. Soil descriptions shall include as a minimum the following information.

- 1) Soil symbol
- 2) Soil series, textural phase and slope range
- 3) Depth to seasonal high water table
- 4) Depth to bedrock
- 5) Estimated soil productivity group (for the proposed crop rotation)

## Item e - h are required for sites receiving frequent application of sewage sludge

- e. In order to verify the information provided in item d, characterize the soil at each land application site.

  Representative soil borings or test pits to a depth of five feet or to bedrock if shallower, are to be coordinated for the typifying pedon of each soil series (soil type). Soil descriptions shall include as a minimum the following information:
  - 1) Soil symbol
  - 2) Soil series, textural phase and slope range
  - 3) Depth to seasonal high water table
  - 4) Depth to bedrock
  - 5) Estimated soil productivity group (for the proposed crop rotation)
- f. Collect and analyze soil samples from each field, weighted to best represent each of the soil borings performed for Item e. Using the table below or a separate attachment, provide at least one analysis per sample for each of the

FACILITY NAME: KINER STP	VPDES PERMIT NUMBER: <u>VA 00240</u> 40
following parameters.	
Soil Organic Matter (%)	
Soil pH (std. units)	
Cation Exchange Capacity (meq/100g)	
Total Nitrogen (ppm)	
Organic Nitrogen (ppm)	
Ammonia Nitrogen (ppm)	
Nitrate Nitrogen (ppm)	
Available Phosphorus (ppm)	
Exchangeable Potassium (mg/100g)	
Exchangeable Sodium (mg/100g)	
Exchangeable Calcium (mg/100g)	
Exchangeable Magnesium (mg/100g)	
Arsenic (ppm)	
Cadmium (ppm)	
Copper (ppm)	
Lead (ppm)	
Mercury (ppm)	
Molybdenum (ppm)	
Nickel (ppm)	
Selenium (ppm)	
Zinc (ppm)	
Manganese (ppm)	
Particle Size Analysis or USDA Textural Estimate (%)	

- g. Relate the crop nutrient needs to anticipated yields, soil productivity rating and the various fertilizer or nutrient sources from sludge and chemical fertilizers. Describe any specialized agronomic management practices which may be required as a result of high soil pH. If the sludge is expected to possess an unusually high CCE or other unusual properties, provide a description of any plant tissue testing, supplemental fertilization or intensive agronomic management practices which may be necessary.
- h. Using a narrative format and referencing any related charts, describe the proposed cropping system. Show how the crop rotation and management will be coordinated with the design of the land application system. Include any supplemental fertilization program, soil testing and the coordination of tillage practices, planting and harvesting schedules and timing of land application.

FA	ACILITY NAME:	INER	STP	VPDES PERMIT NUMBER	R: <i>VA 0024040</i>
		SEV	WAGE SLUDGE A	APPLICATION AGREEMENT	NIA
Th	nis sewage sludge applica	tion agreem	ent is made on this	date	between
			, referred to here a	s "landowner", and	,
ref	ferred to here as the "Perr	nittee".			
La	indowner is the owner of	agricultural		map attached as Exhibit A and designated	
cei	rtain permit requirements	following a	_("landowner's land	d"). Permittee agrees to apply and landown ge sludge on landowner's land in amounts a	ner agrees to comply with
				which is held by the Perm	
La cor pul	ndowner acknowledges the nditioning to the property	hat the appro-	opriate application of the control o	of sewage sludge will be beneficial in prov wledges having been expressly advised tha ed to when sewage sludge receives Class B	viding fertilizer and soil
1.	Food crops with harves be harvested for 14 more	ted parts than the the	at touch the sewage polication of sewage	sludge/soil mixture and are totally above to sludge;	he land surface shall not
2.	Food crops with harves sewage sludge when the the soil;	ted parts be e sewage slu	low the surface of to udge remains on the	he land shall not be harvested for 20 montle aland surface for four months or longer pri	ns after application of for to incorporation into
3.	Food crops with harves sewage sludge when the the soil;	ted parts bel e sewage slu	low the surface of the degree of the longer remains on the	he land shall not be harvested for 38 months land surface for less than four months price	ns after application of or to incorporation into
4.	Food crops, feed crops,	and fiber cr	ops shall not be har	rvested for 30 days after application of sew	vage sludge;
5.	Animals shall not be gra	azed on the	land for 30 days aft	er application of sewage sludge;	
6.	Turf grown on land who sludge when the harves otherwise specified by t	ted turf is pl	aced on either land	all not be harvested for one year after appl with a high potential for public exposure of	ication of the sewage or a lawn, unless
7.	Public access to land wisludge;	ith a high po	otential for public ex	xposure shall be restricted for one year after	er application of sewage
8.	Public access to land wis sludge.	ith a low pot	tential for public ex	posure shall be restricted for 30 days after	application of sewage
9.	Tobacco, because it has following the applicatio pounds/acre).	been shown on of sewage	n to accumulate cad sludge borne cadm	mium, should not be grown on landowner nium equal to or exceeding 0.5 kilograms/h	s land for three years lectare (0.45
spe	mittee agrees to notify la cifically prior to any part tten notice to the address	icular applic	cation to landowner	ee of the proposed schedule for sewage slu's land. This agreement may be terminated	udge application and I by either party upon
	Landowner:			Permittee:	
	Sign	nature		Signature	

Mailing Address

Mailing Address

FACILITY NAME:	RINFR	STP	
FACILITY NAME:	KINER	3//	

VPDES PERMIT NUMBER: VA 0024040

#### SECTION D. SURFACE DISPOSAL

NIA

Complete this section only if you own or operate a surface disposal site. Provide the information for each active sewage sludge unit.

1.	In	formation on Active Sewage Sludge Units.						
	a.	Unit name or number:						
	b.	Unit location						
		i. Street or Route#:						
		County:						
		City or Town: State: Zip:						
		ii. Latitude: Longitude:						
		Method of latitude/longitude determination USGS map Filed survey Other						
	c.	Topographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable) that shows the site location.						
	d.	Total dry metric tons of sewage sludge placed on the active sewage sludge unit per 365-day period:						
	dry metric tons.							
	e.	Total dry metric tons of sewage sludge placed on the active sewage sludge unit over the life of the unit:						
		dry metric tons.						
	f.	Does the active sewage sludge unit have a liner with a minimum hydraulic conductivity of 1 x 10 <sup>-7</sup> cm/sec?  Yes No If "Yes", describe the liner or attach a description.						
	g.	Does the active sewage sludge unit have a leachate collection system? Yes No  If "Yes", describe the leachate collection system or attach a description. Also, describe the method used for leachate disposal and provide the numbers of any federal, state or local permits for leachate disposal:						
	h.	If you answered "No" to either f or g, answer the following:						
		Is the boundary of the active sewage sludge unit less than 150 meters from the property line of the surface disposal site? Yes No If "Yes", provide the actual distance in meters:						
	i.	Remaining capacity of active sewage sludge unit, in dry metric tons: dry metric tons						
		Anticipated closure date for active sewage sludge unit, if known: (MM/DD/YYYY)						
		Provide with this application a copy of any closure plan developed for this active sewage sludge unit.						
2.	Sev	wage Sludge from Other Facilities.						
		ewage sludge sent to this active sewage sludge unit from any facilities other than yours? Yes No						
		Yes", provide the following information for each such facility, attach additional sheets as necessary.						
	a.	Facility name:						
	b.	Facility contact:						
		Title:						
		Phone: ( )						
	c.	Mailing address:						
		Street or P.O. Box:						
		City or Town: State: Zip:						

ACI	LITY NAME: <u>RINER STP</u> VPDES PERMIT NUMBER: <u>VA 0024</u> 046
d	List, on this form or an attachment, the facility's VPDES permit number as well as the numbers of all other federal, state or local permits that regulate the facility's sewage sludge management practices:
	Permit Number: Type of Permit: N/A
e.	Which class of pathogen reduction is achieved before sewage sludge leaves the other facility?  Class A Class B Neither or unknown
f.	Describe, on this form or on another sheet of paper, any treatment processes used at the other facility to reduce pathogens in sewage sludge:
g.	Which vector attraction reduction option is achieved before sewage sludge leaves the other facility?
	Option 1 (Minimum 38 percent reduction in volatile solids)
	Option 2 (Anaerobic process, with bench-scale demonstration)
	Option 3 (Aerobic process, with bench-scale demonstration)
	Option 4 (Specific oxygen uptake rate for aerobically digested sludge)
	Option 5 (Aerobic processes plus raised temperature)
	Option 6 (Raise pH to 12 and retain at 11.5)
	Option 7 (75 percent solids with no unstabilized solids)
	Option 8 (90 percent solids with unstabilized solids)
-	None or unknown
h.	Describe, on this form or another sheet of paper, any treatment processes used at the other facility to reduce vector attraction properties of sewage sludge:
i.	Describe, on this form or another sheet of paper, any other sewage sludge treatment activities performed by the other facility that are not identified in e - h above:
Ve	ctor Attraction Reduction.
a.	Which vector attraction reduction option, if any, is met when sewage sludge is placed on this active sewage sludge unit?
	Option 9 (Injection below land surface)
	Option 10 (Incorporation into soil within 6 hours)
	Option 11 (Covering active sewage sludge unit daily)
b.	Describe, on this form or another sheet of paper, any treatment processes used at the active sewage sludge unit to reduce vector attraction properties of sewage sludge:
~	
	ound Water Monitoring.
a.	Is ground water monitoring currently conducted at this active sewage sludge unit or are ground water monitoring data otherwise available for this active sewage sludge unit? Yes No
	If "Yes", provide a copy of available ground water monitoring data. Also provide a written description of the well locations, the approximate depth to ground water, and the ground water monitoring procedures used to obtain these

1 7		VPDES PERMIT NUMBER: VA 002404
		data.
	b.	Has a ground water monitoring program been prepared for this active sewage sludge unit?  Yes No If "Yes", submit a copy of the ground water monitoring program with this application.
	c.	Have you obtained a certification from a qualified ground water scientist that the aquifer below the active sewage sludge unit has not been contaminated? Yes No
		If "Yes", submit a copy of the certification with this application.
5.	Site	e-Specific Limits.
		you seeking site-specific pollutant limits for the sewage sludge placed on the active sewage sludge unit?  Yes No If "Yes", submit information to support the request for site-specific pollutant limits with this lication.

#### ATTACHMENT # 1



Preston Bryant Secretary of Natural Resources

#### West Central Regional Office

3019 Peters Creek Road, Roanoke, Virginia 24019 Telephone (540) 562-6700, Fax (540) 562-6725 www.deq.virginia.gov David K. Paylor Director

Steven A. Dietrich Regional Director

March 6, 2008

Mr. Bruce R. Jones
Montgomery County Public Service Authority
Government Center Suite 2I
755 Roanoke Street
Christiansburg, VA 24073-3185

RE:

VPDES Permit Application Waiver Request for Riner WWTP; VA0024040

Received March 3, 2008

Dear Mr. Jones:

Your waiver request letter has been reviewed. Your letter requested that the analysis for TSS and BOD<sub>5</sub> be performed on 4-hour composite samples. The permit requires TSS and BOD<sub>5</sub> be performed on 4 hour composite samples. Therefore, these waiver requests are consistent with current permit requirements. These waivers are granted.

It has requested that one pollutant scan be allowed instead of 3 samples be collected for ammonia, nitrate + nitrite, oil and grease, and dissolved solids. Additionally, it has been requested that one pollutant scan be allowed from the aerobic sludge digester to test for arsenic, cadmium, chromium, copper, lead, mercury, molybdenum, nickel, selenium, and zinc. Due to the time frame to collect the samples, these waiver requests are also granted.

If you have any questions about the application, please feel free to call me at (540) 562-6793 or <a href="mailto:blfrance@deq.state.va.us">blfrance@deq.state.va.us</a>.

Sincerely,

Becky L. France

Environmental Engineer Senior

Bleky L France



### MONTGOMERY COUNTY PUBLIC SERVICE AUTHORITY

Government Center
Suite 2I
755 Roanoke Street
Christiansburg, VA 24073-3185

James D. Politis, Chair
Gary Creed, Vice-Chair
Mary W. Biggs, Secretary-Treasurer
Annette S. Perkins, Member
William H. Brown, Member
John A. Muffo, Member
Douglas W. Marrs, Member

Robert C. Fronk, PE PSA Director

February 28, 2008

Becky France- WCRO Permit Writer Department of Environmental Quality West Central Regional Office 3019 Peters Creek Rd. Roanoke, Virginia 24019

Re: Riner STP NPDES Permit No. VA0024040 Waiver request

Dear Ms. France:

We are currently working on the VPDES permit renewal application for Riner STP, and would like to request the following waivers for some of the effluent and sludge sampling required in the application.

- 1. In part 1.A.12, we request that we be able to use 4 hour composite samples for BOD5 and TSS instead of 24 hour composites. The current Riner discharge permit only requires 4 hour composite sampling.
- 2. In part B.6, we request that we only use 1 pollutant scan for Ammonia, Nitrate + Nitrite, Oil and grease, and dissolved solids.
- 3. In the General Information section, No. 8, we request that we be allowed to use 1 pollutant scan from the aerobic sludge digester to test for Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Molybdenum, Nickel, Selenium, and Zinc.

Sincerely,

Bruce R. Jones

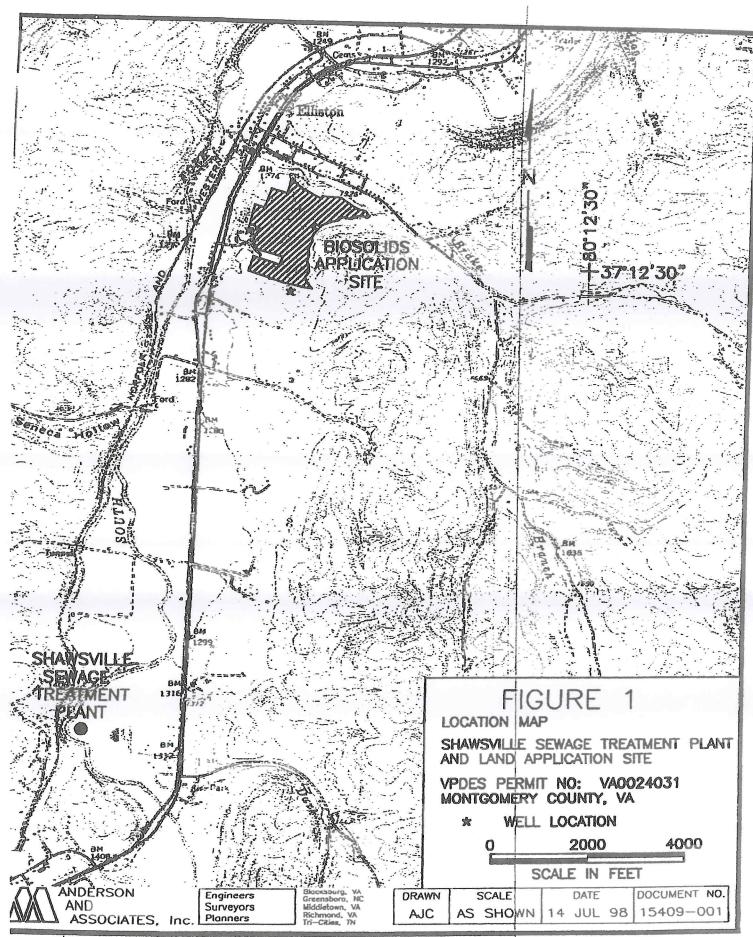
Wastewater Supervisor

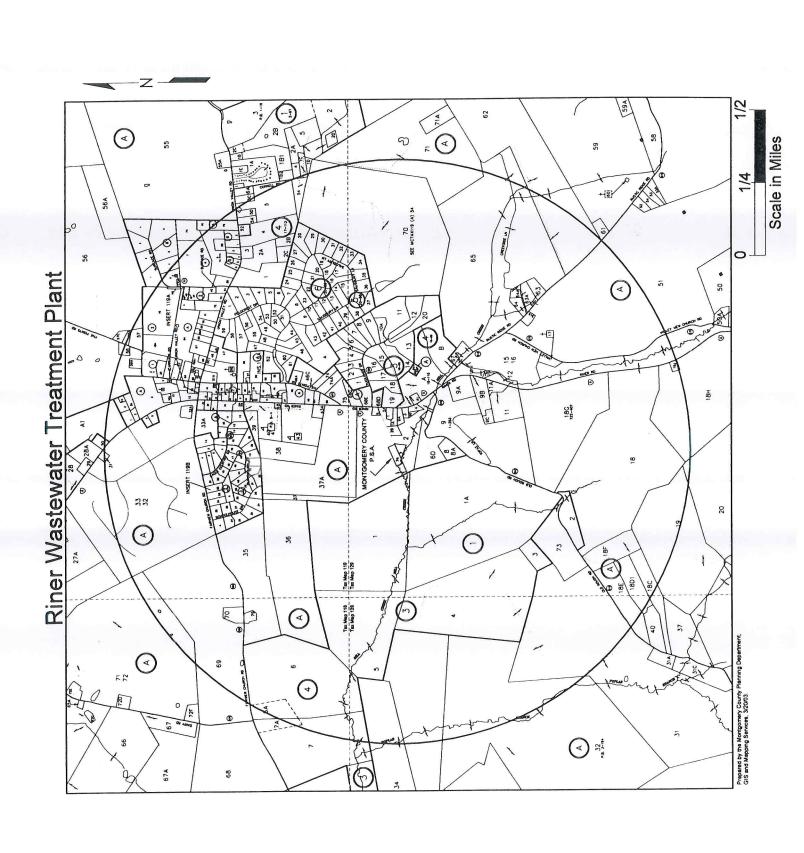
Bur RN

**MCPSA** 

ADMINISTRATIVE OFFICES: (540)381-1997 BILLING & COLLECTIONS: (540) 382-6930 FAX NO. (540) 382-5703

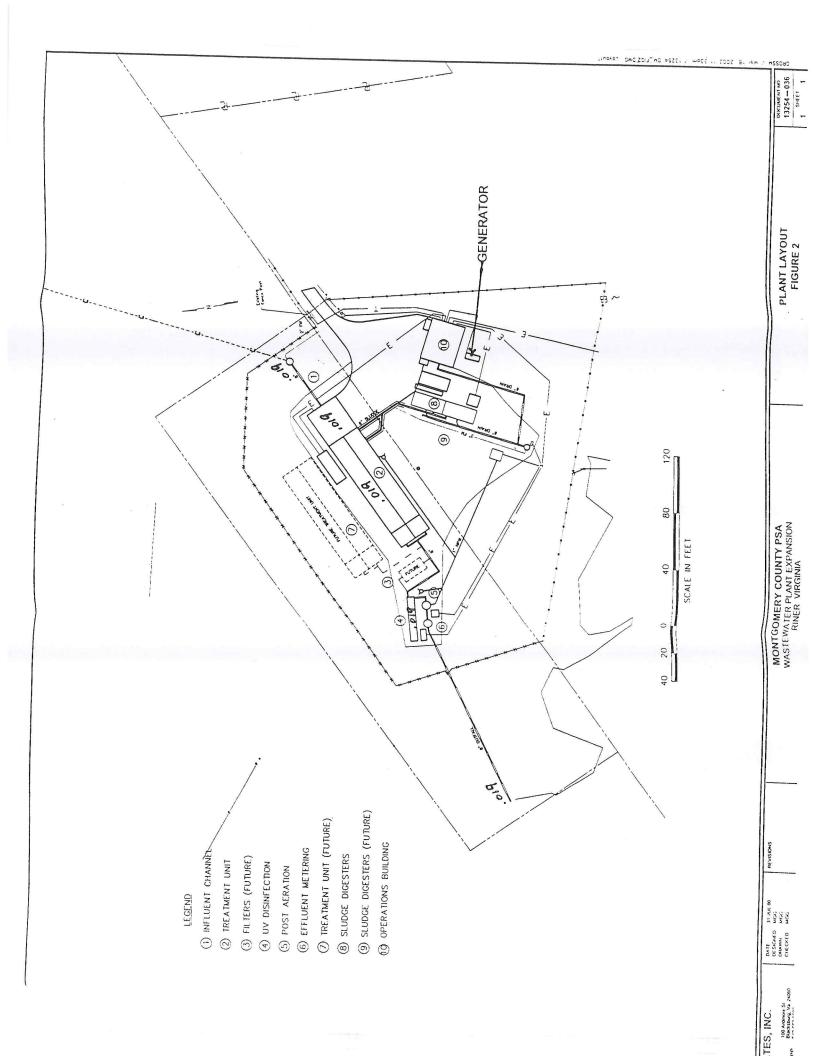
#### ATTACHMENT # 2





## **Montgomery County GIS** Parcel: 035261 Tax Map Number: 129- A 74 Owner: MONTGOMERY COUNTY PUBLIC SERVICE AUTHORITY Land Value: \$2,500 Building Value: Deed Book: 1086 Pg: 0354 Acres: 1.0 Description: RINER 3,550,418 3,549,681 10,915,195 Map Width=737' 10,915,932 Location Map DISCLAIMER: The information contained on this page is NOT to be construed or used as a "legal description". Map information is believed to be accurate but accuracy is not guaranteed. Any errors or omissions should be reported to the Montgomery County Mapping Office. In no event will Montgomery County be liable for any damages, including loss of data, lost profits, business interruption, loss of business information or other pecuniary loss that might arise from the use of this map or the information it contains.

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#### ATTACHMENT # 3

# RO HEM

#### **Certificate of Analysis**

#### PCA Order No. 418047 Final Report

#### Prepared for:

Mr. Bruce Jones
Montgomery County Public Service Authority
755 Roanoke Street
Suite 2!
Christiansburg, VA 24073

Report Date:

March 17, 2008

Date Received:

March 04, 2008

Project:

Riner STP

Comments:

Analytical data are presented on the following pages of this report. If you have any questions or need further assistance, please feel free to contact your project manager at (540) 268-9884.

Respectfully Submitted by:

Reviewed and Approved by:

Cheryl M. Daniel QA/QC Manager

Unless otherwise indicated, all analyses were conducted according to Standard Methods for the Examination of Water and Wastewater, 18th Edition, Test Methods for Evaluation Solid Waste (Physical/Chemical), 3rd Edition, and Methods for the Chemical Analysis of Water and Wastes, EPA.

This report sets forth the results of our analysis of samples delivered to our laboratory and shall not be construed to be a representation by ProChem Analytical Incorporated as to the source or method of procuring such samples. All reports are submitted as the confidential property of clients and authorization for publication of any statements contained in our reports is reserved pending our written consent.

6040 North Fork Road

Elliston, Virginia 24087

Phone: (540) 268-9884

Fox: (540) 268-2755

Page 1 of 3



PCA Order No.:

418047

Client:

Montgomery County Public Service Authority

Project:

Riner STP

Sample Number: 418047-01

Date Collected: **Time Collected:**  3/4/2008

10:40

Description:

Outfall 001

Wastewater

**Final Report** 

Report Date: 3/17/2008

Matrix:

Sample Type: Grab

<u>Analysis</u> Ammonia as N	Resuit 0.11	Reporting <u>Limit</u> 0.10	<u>Units</u> mg/L	Date Analyzed 3/7/2008	Time <u>Analyzed</u> 10:00	<u>Analyst</u> GLH	Method SM 4500NH3,F
Nitrate + Nitrite as N	41.0	1.00	mg/L	3/12/2008	16:23	SXK	SM 4500NO3,H
Oil and Grease	< 5.0	5.0	mg/L	3/5/2008	08:30	KBJ	EPA 1664A
Total Dissolved Solids	527	4	mg/L	3/10/2008	15:30	JNH	SM 2540C
Total Phosphorus as P	1.75	0.250	mg/L	3/12/2008	12:00	KNB	SM 4500P,E



# Analytical Request and Chain of Custody Form

PCA Order ID# 4/8 04/7

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25

Ploase Print. See Chain of Custody Instructions for additional help with corresponding numbers.

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	-	Mr./Ms. 5 12) 7-5				Quotation No.:
2. Bill to:	Company Name:	Attention: Mr. / Ms.		City, State, Zip:	Telephone;	Purchase Order No.
	LONDON GERMANY COUNTY PSA	MINIMS. Groce R. JONES	JSS Rownell St SUTTE Z.T	Christiansburg VA 274073	540.263-8143 PAX: SAME	Junesbe @ ntelos, NE
Mail Report to:	mpany Name:	ention:	dress:	y, State, Zip:	lepitone;	naif.

Company Name:   Activation:		
Attention:	-	S. Turn Around Time Request
Address:	SIGNA	3-4 Business Day Rush
Telephone:		2 Business Day Rush
Fuch time   1   Fuch time		Note: All righ item nound clean
EAB USE ONLY  LAB USE ONLY  A. Project Name  Check One)  PCA Sample ID Receipt Number ID A Sample Learnton or ID Check One)  Number ID A Sample Learnton or ID Check One)  S. Sample Learnton or ID Check One)  S. Sample Learnton or ID Check One)  S. Sample Learnton or ID Check One)  DA CHAPTIME Date/Time Date/Time Time(s) and a gas a		are subject to ProChem Analytical
PCA Sample II)   Receipt   Recei	Quotation No.:	approval and additional fees,
PCA Sample ID Receipt Nine PH at Inchipate Composite C	161.2	
(14. Request for Additional Reporting (please check all that apply))  5. Sample Loanton or ID	xintel	12. Requested Anniyses
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Matrix Key:    Matrix Key:   Dw Drinking White Or Oling ST Dw Carandwater Or Oling SU LE Leading St. Shuige SD L. Shuige S	1 plastin	TOTAL Discovery
Matrix Key:  Dw. Drinking Water  Dw. Groundwater  Dw. Groundwater  Dw. Groundwater  Dw. Groundwater  St. Shuige SD  La Leadinto  16. Sampler(s) (Printed Name and Signa	ww plastic	M&-1-015-MSENIE
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Matrix Key:  DW - Drinking Water Of ~ Oil  GW - Grentwiner Of ~ Oiler  LB - Leachine BL  LL - Shalle BD  LL - Shalle		-
Matrix Key:  DW - Draking Water Of Oile ST  GW - Groundwater O'T Oiler SU  LR - Leathar SI Shudge SD  LR - Limith SO Soil  16. Sampler(s) (Printed Name and Signa		- 9
16. Sampler(s) (Printed Name and Signa	ST a Biggin Water Note SU a Sinfbee Water H-80, 8D as Solid MNO, MNO When MNO, MNO WATER H-80, MNO, MNO WATER MNO, MNO WATER WAT	NaOH (CH,CO <sub>2</sub> )/2N = Sodium IIy (CH,CO <sub>2</sub> )/2N = Zino Assino CHH,LO <sub>1</sub> N <sub>2</sub> N <sub>1</sub> N <sub>12</sub> = EDTA
Livia Fax (extra fee after 1" fax) While Email (no extra fee) Divia CD-ROM (extra fee) (5 fee) CR: ne.	Signature):	
15. Comments: 1.5 mls of ANO3 ADDED to Sammer to post leve 17. Relinquished by (Signature):  A pit of 20 oil. A	-Bute/Time	18. Received by (Signature).
pt in inb =	Date/Time T	8. Received by (Signiture): Date/Time
PCA Project Manager: Method of Shipment: PCA Personnel D'Client Personnel DPS PedEx  Acthod of Shipment: Airborne DSPS Other	Date/Time	18. Received by (Signature): Date/Time



# MONTGOMERY COUNTY PUBLIC SERVICE AUTHORITY

Government Center
Suite 2I
755 Roanoke Street
Christiansburg, VA 24073-3185

March 13, 2008

James D. Politis, Chair
Gary Creed, Vice-Chair
Mary W. Biggs, Secretary-Treasurer
Annette S. Perkins, Member
William H. Brown, Member
John A. Muffo, Member
Douglas W. Marrs, Member

Robert C. Fronk, PE PSA Director

Bruce

Ms. Becky L. France, Environmental Engineer Senior Department of Environmental Quality West Central Regional Office 3019 Peters Creek Road Roanoke, VA 24019

Dear Ms. France:

Please find attached the data to fulfill the Water Quality Standards Monitoring requirements for Part 1.C.7 Attachment A, for the Riner STP NPDES Permit No. VA0024040.

If you have any questions please call me at (540)268-5143.

Sincerely,

Bruce R. Jones

Wastewater Supervisor

Fun Hor

BRJ/ljp

Attachment

Date: 06-Oct-06

CLIENT: MONTGOMERY COUNTY PSA

Client Sample ID: 001 OUTFALL GRAB

Project:

Site ID:

RINER PLANT

WorkOrder:

0609E54

Lab ID:

0609E54-01A

Collection Date: 9/26/2006 11:05:00 AM

Matrix:

Angline	TOTAL .			Matrix:		WASTE WATER		
Analyses	Result	Units	Qual	MOL	PQL	MCL	Prep Date	Date Analyzed
TOTAL METALS BY ICP Zinc	0.173		E200.7	0.003	0.050	NA	Analyst: N 09/28/06 12:00	

DICL Maximum Concuminant Lavel

PADL Minimum Denocion Limit

NA Not applicable

MD Not Described at the PQL 89 MDL

PQL Pression Quantitation Limit

TIC Tentarischy Manified Compound

Qualifiers: 0

Analyse demond in the associous Method Blast

Value artisamed due to entitivation range excendence

Sample connection/analysis holding circu encooded

Spike/Surregat Recovery traceds securied recovery listing

Value success Maximum Consuminant Level or Regulatory Level Page 2 of 4

CLIENT: MONTGOMERY COUNTY PSA

Client Sample ID: 001 OUTFALL COMP

Project:

Site ID:

RINER PLANT

Date: 06-0c1-06

0609E54 WorkOrder:

Lab ID:

0609E54-02A

Collection Date: 9/26/2006 11:00:00 AM

Matrix:

WASTE WATER

			-				
Analyses	Result Upits	Qual	MDL	PQL	MCL	Prep Date	Date Analyzed
						- ~ ~	

HARDNESS

Hardness, Total (As CaCO3)

232 mg/L

SM2340 B

NA 1.00 Analyst: MD

NA 09/28/06 12:00 AM 09/28/06 7:54 PM

MDL Minimum Descrito Limic

NA Not applicable

NO Not Describe in the PQL or MDL

PQL Presidest Quantimation Limit

TIC Tentati-cly Mentified Compound

Qualifiers: 6 Anne decemb in the associace Mested Blank

Value coursed that to cultivation maps exceedence

Sample exercise/analysis holding time exceeded

S Spite/Surregast Recovery exceeds accepted recovery limits

N Value extension Municipan Continuint Level or Regulancy Lovel Page 3 of 4

Date: 14-Dec-06

LIENT:

MONTGOMERY COUNTY PSA

tient Sample ID: OUTFALL 001 COMP

roject:

RINER STP

te ID:

WorkOrder:

0612353

Lab ID:

0612353-01A

Collection Date: 12/5/2006 11:00:00 AM

Matrix:

WASTE WATER

nalyses	Result Units	Qual	MDL	PQL	MCL	Prep Date	Date Analyzed	
ARDNESS Hardness, Total (As CaCO3)	190 mg/L	SM2340 B	NA	1.00	NA	Analyst: D	L AM 12/12/06 2:17 AM	
OTAL KJELDAHL NITROGEN (TKN) Nitrogen, Kjeldahl, Total	1.20 mg/L	E351.3	NA.	1.00	NA	Analyst: J	.M 12/11/06 8:00 AM	

MCI. Maximum Constantinent Level MDL Minimum Detection Limit

Not Described at the PQL or MDL

Practical Quantitation Limit Tic Temporary Identified Compound Qualifiers: B

Azalyte desected in the associated Method Blank

Value estimated due to calibration range exceedence

Sample extraction unalysis holding time exceeded

Spike Surrogate Recovery exceeds accepted recovery limits

Page 2 of 3 Value exceeds Maximum Contaminant Level or Regulatory Level

Date: 14-Dec-06

Collection Date: 12/5/2006

LIENT:

MONTGOMERY COUNTY PSA

lient Sample ID: OUTFALL 001 GRAB

:oject:

RINER STP

te ID:

WorkOrder:

0612353

Lab ID:

0612353-02A

Matrix:

LIQUID

nalyses	Result Units	Qual	MDL	PQL	MCL	Prep Date	Date Analyzed
TAL METALS BY ICP		E200.7				Analyst: D	L
Zinc	0.113 mg/L		0.003	0.050	NA	12/08/06 12:00	AM 12/12/06 2:32 AM

ey:

MCL Maximum Conteminant Level

MDL Minimum Detection Limit

NA Not Applicable

ND Not Detected at the PQL or MDL

PQL Practical Quantitation Limit
TIC Tentatively Identified Compound

Qualifiers: B

B Analyze detected in the associated Method Blank

Value extinuted due to calibration range exceedence

H Sample extraction/analysis holding time exceeded

S Spike/Surrogate Recovery excends accepted recovery limbs

Volue exceeds Maximum Contaminant Level or Regulatory Level Page 3 of 3

Date: 15-Mer-07

MARDNESS Hardness, Total (As Cat	(O3) 188 mg/L	8M2340 B	NA	1.00	NA	Analyst: Bi	P AM D3/13/07 K-KA PM	
Analyses	Result Units	Qual	MDL	PQL	MCL	Prep Date	Date Analyzed	
Site ID:			Matri			STE WATER		
Project: RD	ier stp		Collec	ction Da		2007 11:00:00	AM	
Client Sample ID: 001 OUTFALL COMP					_	0703484 0703484-01A		
CLIENT: M	INTOMERY COUNTY PSA		WAR	Order	070	7404		

May:	MCL	Madaust Conneinant Lord	Qualificers:	B	Analyla distanced in this appointed Marched Distair	
-	MOL	Ministran December Linux		E	Value estimates due us entiretion range exceedence	
	MA	Not Applicable	Ì	H	Sample expection/melysis hotting time exceeded	
	ND	Not Deserted at the PGL or NDL	1	y	Analysis deserred as less than the PQL	
	PQL	Pressivel Quantization Limit		8	Spike/Surregate Recovery exceeds accepted resevery limits	Page 2 of 3
		5	1			-

Date: 15-Mar-07

CLIENT:

MONTGOMERY COUNTY PSA

Client Sample ID: 001 OUTFALL GRAB

Project:

RINER STP

Site ID:

WorkOrder:

0703484

Lab ID:

0703484-02A

Collection Date: 3/6/2007 11:10:00 AM

Matrix:

WASTE WATER

Analyses

Result Units

Qual

MDL PQL MCL Prep Date

Date Analyzed

TOTAL METALS BY ICP

Zinc

0.103 mg/L

£200.7

0.0030

0.050

Analyst: BP

NA 03/09/07 12:00 AM 03/13/07 6:09 PM

Keyı

MCL. Mydman Comanisms Lord

MDL Nichan Danies Link

NA Mys Applicable

NO Not Described at the PQL or MOL

PQL Precised Quantitation Limit

TPC Tentral Manifold Compound, Estimant Contractation

Qualifiers: D

Analyse determed in the associated Mathed Blank

Value estimated due to collection service acceptance

H Cample accusticulated yets halding time exceeded

I Amigra descend as less than the PQL

5 Apthot/Surrogens Recovery accords accounted recovery lives

Page 3 of 3

Viter provide Mariners Constanting Lord or Regulatory Lord

CLIENT:

MONTGOMERY COUNTY PSA

Client Sample ID: 00! OUTFALL

Project:

RINER STP

Site ID:

Date: 14-Jun-07

WorkOrder:

0706315

Lab ID:

0706315-01A

Collection Date: 6/5/2007 11:00:00 AM

Matrix:

WASTE WATER

Analyses	Result Units	Qual	MDL	PQL	MCL	Prep Date	Date Analyzed
TOTAL METALS BY ICP		E200.7		70/ 0 4		Analyst: JD	
Zinc	0.141 mg/L		NA	0.050	NA		AM 06/07/07 8:00 PM
IARDNESS		SM2340 B				Analyst: JD	
Hardness, Total (As CaCO3)	204 mg/L		NA	1.00	NA		AM 06/07/07 8:00 PM
OTAL KJELDAHL NITROGEN (TKN)		SM4500-NORGC				Analyst: 5B	
Nitrogen, Kjeldahl, Total	ND mg/L		NA	1.00	NA	· wayot. OD	06/12/07 2:37 PM

MCL. Maximum Contembrant Level

MDL Minimum Denesian Limit

NA Not Applicable

ND Not Desected at the PQL or MDL

PQL Precised Quantitation Limit

TIC Tentatively Identified Compound, Estimated Com

Qualifiers: B

Value estimated due to estimation range exce

Sample extraction/analysis holding time occorded

Analyse desected at less than the PQL

Spike/Surrogate Resovery exceeds eccepted recovery limits

Page 2 of 2

Value exceeds Maximum Communicans Level or Regulatory Level

Date: 19-Sep-07

CLIENT:

MONTGOMERY COUNTY PSA

Client Sample ID: 001 OUTFALL COMP

Project:

RINER STP

Site ID:

WorkOrder:

0709693

Lab ID:

0709693-01A

Collection Date: 9/11/2007 11:00:00 AM

Analyses	·	-		Matrix: WASTE WATER				
HARDNESS	Result U	Units	nits Qual	PQL	MCL	Prep Date	Date Analyzed	
Hardness, Total (As CaCO3)	201 n	ng/L	SM2340 B	1.00	NA	Analyst: BP		
TOTAL KJELDAHL NITROGEN (TKN) Nitrogen, Kjeldahl, Total	1.9 m	18/L	SM4500-NORGC	4.0		Analyst: DB	09/17/07 8:02 PM	
				1.0	NA		09/13/07 9:00 AM	

ey: MCL Maximum Contaminant Level

MDL Minimum Detection Limit
NA Not Applicable

ND Not Detected at the PQL or MDL

PQL Practical Quantitation Limit

TIC Tentatively Identified Compound, Estimated Concentrati

Qualifiers: B

B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

H Holding times for preparation or analysis exceeded

S Spike/Surrogate Recovery outside accepted recovery limi

Value exceeds Maximum Contaminant Level

Page 2 of 3

Date: 19-Sep-07

CLIENT:

MONTGOMERY COUNTY PSA

Client Sample ID: 001 OUTFALL GRAB

Project:

RINER STP

Site ID:

WorkOrder:

0709693

Lab ID:

0709693-02A

Collection Date: 9/11/2007 11:00:00 AM

Matrix:

WASTE WATER

				Mattia.	VY /	ASIE WAIEK	
Analyses	Result	Units	Qual	PQL	MCL	Prep Date	Date Analyzed
TOTAL METALS BY ICP Zinc	0.075	mg/L	E200.7	0.050	NA	Analyst: BP	

MCL Maximum Contaminant Level

MDL Minimum Detection Limit

NA Not Applicable

ND Not Detected at the PQL or MDL

PQL Practical Quantitation Limit

Tentatively Identified Compound, Estimated Concentrati

Qualifiers: B

Analyte detected in the associated Method Blank

Estimated Value above quantitation range

Holding times for preparation or analysis exceeded Н

Spike/Surrogate Recovery outside accepted recovery limi

Value exceeds Maximum Contaminant Level

Page 3 of 3

CLIENT:

MONTGOMERY COUNTY P\$A

Client Sample ID: 001 OUTFALL COMP

Project:

RINER STP

Site ID:

RINER STP

Date: 21-Dec-0\*

WorkOrder:

0712774

12-17-07

Lab ID:

0712774-01 \

Collection Date: 12 11 2007 14 00 000 555

Camo

Matrix:

WASH WATER

Analyses	Result Units	Qual	PQL	MCL	Prep Date	Date Analyzed
HARDNESS	200	SM2340 B			Analyst BP	
Hardness, Total (As CaCO3)	262 mg/L		1 00	NA	12/13/07 9 48 AM	16.33 1 14.PM
TOTAL KJELDAHL NITROGEN (TKN)		SM4500-NORGC			Analyst JJ	
Nitrogen. Kjeldahl, Total	ND mg/L		10	NA		12 13 07 9 9 ) AM

Key: MCI Maximum Contaminant Level MDI Minimum Detection Limit

NA Not Applicable

ND Not Detected at the PQL or MDI

PQI Practical Quantitation Limit

TIC Tentatively Identified Compound, Ustimated Concentrati

Qualifiers: B Ana

Analyte detected in the associated Method Blank

Estimated Value above quantitation range

II Holding times for preparation or analysis exceeded

S Spike/Surrogate Recovery outside accepted recovery from

Value exceeds Maximum Contaminant Level

President 3

CLIENT:

MONTGOMERY COUNTY P\$A

Client Sample ID: 001 OUTFALL GRAB

Project:

RINER STP

Site ID:

RINER STP

Date: 21-Dec-07

WorkOrder:

0712774

Lab ID:

0712774-02 \

Collection Date: 12 11 2007 11 00 00 AM

15-11-03

Matrix:

WASH WATER

Analyses	Result Units	Quat	PQL	MCL	Prep Date	Date Analyzea	
TOTAL METALS BY ICP	2	E200.7			Analyst BP		
Zinc	0.109 mg/L		0 050	NA	12/13/07 9 48 AM	12/18/07 11 19 PM	

MCI Maximum Contaminant Level MDI Minimum Detection I unit

> Not Applicable NA

ND Not Detected at the PQL or MDL

PQI Practical Quantitation Limit

HC Tentatively Identified Compound, Estimated Concentrati

Qualifiers: B

Analyte detected in the associated Method Blank

Estimated Value above quantitation range

11 Holding times for preparation or analysis exceeded

Spike-Surrogate Recovery outside accepted recovery fami

Page 3 of 3 Value exceeds Maximum Contaminant Level

**Analytical Results** 

Date: 12-Mar-08

CLIENT:

MONTGOMERY COUNTY PSA

Client Sample ID: 001 OUTFALL GRAB

RINER STP

Project: Site ID:

RINER STP

WorkOrder:

0803294

Lab ID:

0803294-02A

Collection Date: 3/4/2008 11:05:00 AM Matrix:

WASTE WATER

Analyses	Result Units	Qual	PQL	MCL	Prep Date	Date Analyzed
METALS BY ICP		E200.7			Analyst: B	P
Zinc	0.101 mg/L		0.050	NA	03/06/08 11:52	AM 03/11/08 12:40 PM

MCL Maximum Contaminant Level Key:

MDL Minimum Detection Limit

NA Not Applicable

ND Not Detected at the PQL or MDL

PQL Practical Quantitation Limit

TIC Tentatively Identified Compound, Estimated Concentration

Qualifiers: B

Analyte detected in the associated Method Blank

Estimated Value above quantitation range E

Holding times for preparation or analysis exceeded Н

Spike/Surrogate Recovery outside accepted recovery limits S

Value exceeds Maximum Contaminant Level

Page 3 of 3

**Analytical Results** 

Date: 12-Mar-08

CLIENT:

MONTGOMERY COUNTY PSA

Client Sample ID: 001 OUTFALL

Project:

RINER STP

Site ID:

RINER STP

WorkOrder:

0803294

Lab ID:

0803294-01A

Collection Date: 3/4/2008 11:00:00 AM

Matrix:

WASTE WATER

Result Units	Onal	Part	MCI	Duan Flore	Date Analyzed
		1.001		rrep ivale	Trate Analyzed
	SM2340 B			Analyst BP	
197 mg/L		1.00	NA		M 03/11/08 12:34 PM
	SM4500-NORGC			Analyst: JL	
2.7 mg/L		1.0	NA		03/07/08 7:30 AM
	197 mg/L	SM2340 B 197 mg/L SM4500-NORGC	SM2340 B 197 mg/L 1.00 SM4500-NORGC	SM2340 B 197 mg/L 1.00 NA SM4500-NORGC	SM2340 B Analyst: BP 197 mg/L 1.00 NA 03/06/08 12:00 AP SM4500-NORGC Analyst: JL

Key: MCL Maximum Contaminant Level

MDL Minimum Detection Limit

NA Not Applicable

ND Not Detected at the PQL or MDL

PQL Practical Quantitation Limit

TIC Tentatively Identified Compound, Estimated Concentration

Qualifiers: B

: B Analyte detected in the associated Method Blank

E Estimated Value above quantitation range

H Holding times for preparation or analysis exceeded

S Spike/Surrogate Recovery outside accepted recovery limits

Value exceeds Maximum Contaminant Level

Page 2 of 3

FACILITY NAME: Riner STP

ADDRESS: 755 Roanoke Street, Suite D, Christiansburg, VA 24073

PERMIT NO.: VA0024040

OUTFALL NO.: 001

DEQ PARAM #	EPA PARAM #	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL <sup>(1)</sup>	REPORTING RESULTS	SAMPLE TYPE <sup>(2)</sup>	SAMPLE FREQUENCY <sup>(3)</sup>	SPECIFIC TARGET VALUE <sup>(4)</sup>
			M	ETALS .			<u> </u>	
		Antimony (Dis.)	(5)	(5)		G	х	
		Arsenic III (Dis.)	(5)	(5)	The same of the sa	G	х	
440	01025	Cadmium (Dis.)	(5)	(5)		G	х	
232	01033	Chromium III*	(5)	(5)		G	Х	
023	01032	Chromium VI	(5)	(5)		G	х	
442	01040	Copper (Dis.)	(5)	(5)		G	x	
405	01049	Lead (Dis.)	(5)	(5)		G	х	
444	71890	Mercury (Dis.)	(5)	(5)		G	х	
445	01065	Nickel (Dis.)	(5)	(5)		G	х	
446	01145	Selenium (Dis.)	(5)	(5)		G	х	
447	01075	Silver (Dis.)	(5)	(5)		G	x	
448	01092	Zinc (Dis.)	(5)	(5)		G	1/3 Months	50
			PESTIC	IDES/PCB'S	5			
332	39330	Aldrin	608	0.05		G or C	х	NA
333	39350	Chlordane	608	0.2		G or C	х	NA
334	77969	Chlorpyrifos (Dursban)	622	(7)		G or C	х	NA
		DDD	608	0.1		G or C	х	NA
		DDE	608	0.1		G or C	x	NA
335	39370	DDT	608	0.1		G or C	х	NA
336	39560	Demeton	(6)	(7)		G or C	х	NA
337	39380	Dieldrin	608	0.1		G or C	х	NA
		Endosulfan	608	0.1		G or C	х	NA
339	39390	Endrin	608	0.1		G or C	х	NA
340	39580	Guthion	622	(7)		G or C	x	NA
341	39410	Heptachlor	608	0.05		G or C	x	NA
342		Hexachlorocyclo hexane (Lindane)	608	0.05		G or C	x	NA
		Kepone	(6)	(7)		G or C	х	NA

FACILITY NAME: Riner STP

ADDRESS: 755 Roanoke Street, Suite D, Christiansburg, VA 24073

PERMIT NO.: VA0024040

OUTFALL NO.: 001

DEQ PARAM #	EPA PARAM #	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL <sup>(1)</sup>	REPORTING RESULTS	SAMPLE TYPE <sup>(3)</sup>	SAMPLE FREQUENCY <sup>(3)</sup>	SPECIFIC TARGET VALUE <sup>(4)</sup>
343	39530	Malathion	(6)	(7)		G or C	x	NA
344	39480	Methoxychlor	(6)	(7)		GorC	х	NA
345	39755	Mirex	(6)	(7)		GorC	х	NA
346	39540	Parathion	(6)	(7)		G or C	х	NA
641		PCB-1242	608	1.0		G or C	x	NA
642		PCB-1254	608	1.0		G or C	х	NA
643		PCB-1221	608	1.0		G or C	х	NA
644		PCB-1232	608	1.0		G or C	х	NA
645	5	PCB-1248	608	1.0		G or C	х	NA
618	39508	PCB-1260	608	1.0		G or C	x	NA
646		PCB-1016	608	1.0		G or C	х	NA
349	39400	Toxaphene	608	5.0		G or C	х	NA
		BASE N	EUTRA	L EXTRAC	TABLES	5		
		Acenaphthene	625	10.0		G or C	х	NA
275	34222	Anthracene	625	10.0		G or C	x	NA
276	34526	Benzo(a) anthracene	625	10.0		G or C	х	NA
648		Benzo(b) fluoranthene	625	10.0		G or C	х	NA
278	34242	Benzo(k) fluoranthene	625	10.0		G or C	х	NA
277	34247	Benzo(a)pyrene	625	10.0		G or C	х	NA
		Butyl benzyl phthalate	625	10.0		G or C	х	NA
282	34320	Chrysene	625	10.0		G or C	х	NA
654		Dibenz(a,h) anthracene	625	20.0		G or C	х	NA
		Dibutyl phthalate	625	10.0		G or C	Х	NA
259	34536	1,2-Dichlorobenzene	625	10.0		G or C	х	NA
264	34566	1,3-Dichlorobenzene	625	10.0		G or C	Х	NA
266	34571	1,4-Dichlorobenzene	625	10.0		G or C	х	NA
		Diethyl phthalate	625	10.0		G or C	Х	NA
170		Di-2-Ethylhexyl Phthalate	625	10.0		G or C	Х	NA
239	34611	2,4-Dinitrotoluene	625	10.0		G or C	х	NA
237								

FACILITY NAME: Riner STP ADDRESS: 755 Roanoke Street, Suite D, Christiansburg, VA 24073

PERMIT NO.: VA0024040

OUTFALL NO.: 001

DEQ PARAM #	EPA PARAM #	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL <sup>(1)</sup>	REPORTING RESULTS	SAMPLE TYPE <sup>(3)</sup>	SAMPLE FREQUENCY <sup>(3)</sup>	SPECIFIC TARGET VALUE <sup>(4)</sup>
288	34381	Fluorene	625	10.0		G or C	х	NA
651		Indeno(1,2,3-cd) pyrene	625	20.0		G or C	х	NA
650		Isophorone	625	10.0		G or C	х	NA
293	34696	Naphthalene	625	10.0		G or C	х	NA
		Nitrobenzene	625	10.0		G or C	х	NA
296	34469	Pyrene	625	10.0		G or C	х	NA
		1,2,4 Trichlorobenzene	625	10.0		G or C	х	NA
			VOI	LATILES				
216	34030	Benzene	624	10.0		G	х	NA NA
484	32104	Bromoform	624	10.0		G	х	NA
236	32102	Carbon Tetrachloride	624	10.0		G	х	NA
652		Chlorodibromo methane	624	10.0		G	х	NA
223	32106	Chloroform	624	10.0		G	х	NA
649		Dichloromethane	624	20.0		G	х	NA
244	79603	Dichlorobromo methane	624	20.0		G	х	NA
260	34531	1,2-Dichloroethane	624	10.0		G	х	NA
		1,1-Dichloroethylene	624	10.0		G	x	NA
172	34371	Ethylbenzene	624	10.0		G	х	NA
653		Monochlorobenzene	624	50.0		G	х	NA
220	34475	Tetrachloro ethylene	624	10.0		G	х	NA
222	34010	Toluene	624	10.0		G	х	NA
155	39180	Trichloroethylene	624	10.0		G	х	NA
173	39175	Vinyl Chloride	624	10.0		G	х	NA
		AC	IDS EXT	ΓRACTABL	ES			
		2-Chlorophenol	625	10.0		G or C	х	NA
		2,4 Dichlorophenol	625	10.0		G or C	х	NA
		2,4 Dimethylphenol	625	10.0		G or C	х	NA
210	39032	Pentachlorophenol	625	50.0		G or C	х	NA
175	46000	Phenol <sup>(8)</sup>	625	10.0		G or C	х	NA
602	34621	2,4,6-Trichlorophenol	625	10.0		G or C	х	NA

FACILITY NAME: Riner STP

ADDRESS: 755 Roanoke Street, Suite D, Christiansburg, VA 24073

PERMIT NO.: VA0024040

OUTFALL NO.: 001

DEQ PARAM #	EPA PARAM #	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL <sup>(1)</sup>	REPORTING RESULTS	SAMPLE TYPE <sup>(2)</sup>	SAMPLE FREQUENCY <sup>(3)</sup>	SPECIFIC TARGET VALUE <sup>(4)</sup>
			MISCE	LLANEOUS	S			
039	00610	Ammonia as NH3-N	350.1	200		С	Х	NA
		Chlorides (mg/l)	(6)	(7)		С	X	NA NA
005	50060	Chlorine, Total Residual	(6)	100		G	X	NA
018	00720	Cyanide	335.2	10.0		G	X	NA NA
137	00900	Hardness (as mg/l CaCO <sub>3</sub> )	(6)	(7)		С	1/3 Months	NA NA
		Hydrogen Sulfide	(6)	(7)		G	X	NA NA
		Nitrate (as mg/l N)	(6)	(7)		С	X	NA NA
350	30340	Tributyltin <sup>(9)</sup>	NBSR 85-3295	(7)		С	х	NA NA
252	81551	Xylenes (total)	SW 846 Method 8021B	(7)		G	х	NA

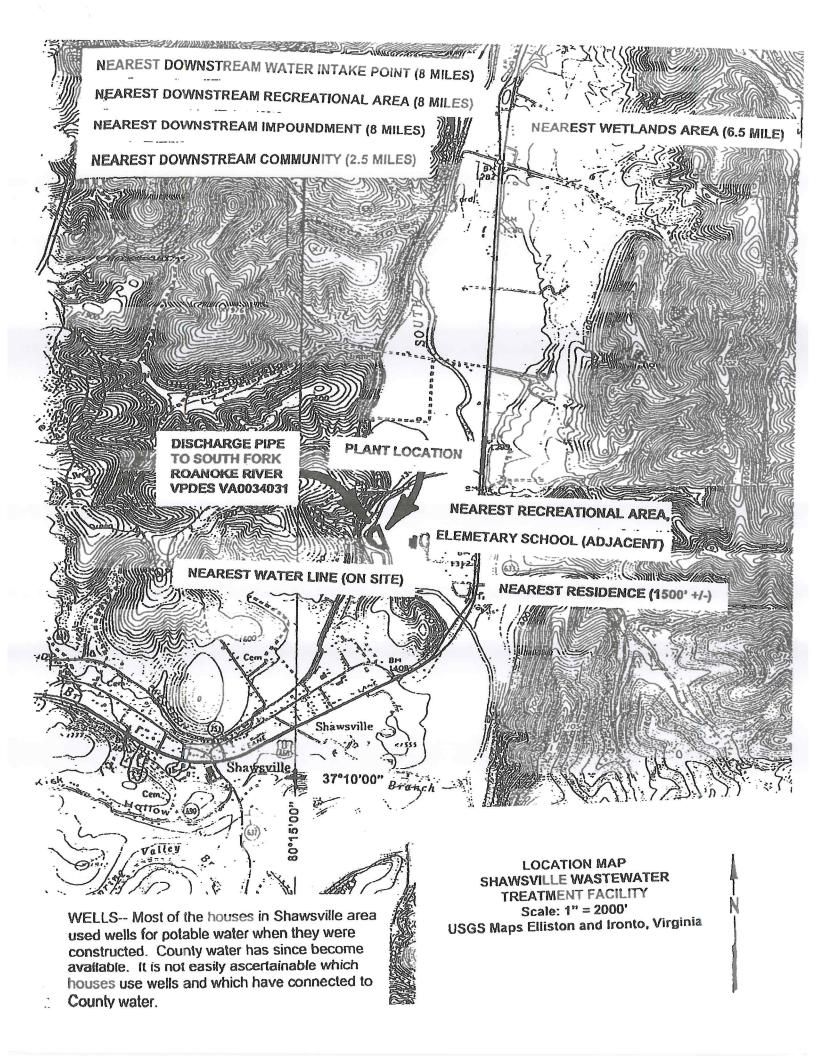
Name of Principal Exec. Officer or Authorized Agent / Title

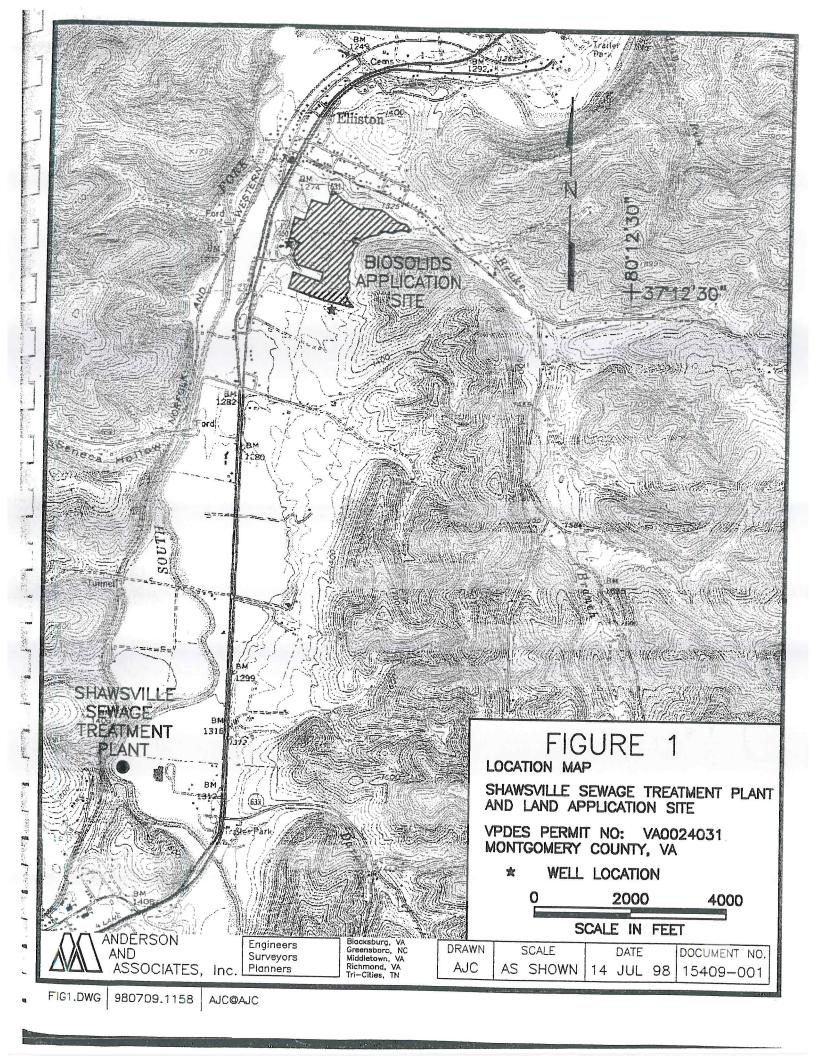
Supremuls of Principal Exec. Officer or Authorized Agent / Title

Signature of Principal Officer of Authorized Agent

Date

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. '1001 and 33 U.S.C. '1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)





The Riner Wastewater Treatment facility is an extended aeration package plant designed for a flow of 0.10 MGD, and currently operating at an average flow of 0.019 MGD. Wastewater flows through a bar screen, into an equalization basin, and is pumped into aeration basins, then flows into secondary clarifiers. Clarified effluent leaves the secondary clarifiers via weir troughs and flows through UV disinfection, a post aeration basin, and a parshall flume to the outfall pipe into Mill creek.

Sludge is air lifted from the secondary clarifiers to the aerobic sludge digesters or returned to the aeration basins. Sludge undergoes aerobic digestion in the digesters, and is thickened by periodically decanting supernatent from the digesters. Digester supernatent is returned to the head of the plant for further treatment.

Sludge disposal is accomplished by pumping the sludge from the digesters to a mechanical belt press for dewatering. The belt press will produce a sludge that consists of 11% to 14 % solids. The dewatered sludge is hauled by dump truck to the Shawsville Sewage Treatment Plant for blending, storage, and eventual land application. Prior to transportation of the dewatered sludge the sludge must be able to pass a paint filter test in order to prevent any spills from the dump truck. Sludge is transported between the hours of 7 a.m. and 3 p.m., Monday through Friday.

Class B pathogen reduction is achieved through alternative #1, which measures the fecal density ( the ceiling is 2,000,000 MPN or CFU per gram ). Vector attraction reduction is achieved by digesting the sludge until a Specific Oxygen Uptake Rate (  $\rm SOUR$  ) of <1.5 milligrams of oxygen per hour per gram of total solids is achieved.



PCA Order No.:

418047

Client:

Montgomery County Public Service Authority

Project:

Riner STP

**Sample Number: 418047-02** 

Description:

Digestor - South

**Final Report** 

Report Date: 3/17/2008

Date Collected:

3/4/2008

Matrix:

Wastewater

**Time Collected:** 

10:45

Sample Type: Grab

Analysis	Result	Reporting <u>Limit</u>	<u>Units</u>	Date Analyzed	Time Analyzed	Analyst	Method
Arsenic	0.020	0.005	mg/L	3/5/2008	16:45	CDM	EPA 200.7
Cadmium	0.044	0.001	mg/L	3/5/2008	16:45	CDM	EPA 200.7
Chromium	0.190	0.005	mg/L	3/5/2008	16:45	CDM	EPA 200.7
Соррег	6.37	0.005	mg/L	3/5/2008	16:45	CDM	EPA 200.7
Lead	0.527	0.005	mg/L	3/5/2008	16:45	CDM	EPA 200.7
Mercury	0.0021	0.0002	mg/L	3/7/2008	08:59	CDM	EPA 245.1
Molybdenum	0.060	0.005	mg/L	3/5/2008	16:45	CDM	EPA 200.7
Nickel	0.206	0.005	mg/L	3/5/2008	16:45	CDM	EPA 200.7
Selenium	0.072	0.005	mg/L	3/5/2008	16:45	CDM	EPA 200.7
Zinc	15.2	0.005	mg/L	3/5/2008	16:45	CDM	EPA 200.7
The second secon	Company of the Compan	2070					



Analytical Request and Chain of Custody Form

-
- Charles about the second second

Page of Is Order Complete? | Yes | No

Please Print. See Chain of Custody Instructions for additional help with corresponding numbers.

1. Mail Report to:		2. Bill to:		
Company Name:	And the same of the Contract o	Company Name:		3. Turn Arou
Attention:	1~	Attention:	Mr / Ms	S. M. Mariera B.
Address:	TO THE STATE OF TH	Address	7	2 Business
City, State, Zip:	1 2	City State Zin.		
Telephone;	×	Telephone:		Note: All rush t
Email:	1010	Purchase Order No.:	On contention C	approval and adr
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Zip:	7	COKC	73		City, State, Zip:	ä						Note: All rush turn around times	ound times
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13. QA/QC Package Re	13. QA/QC Package Request (piense circle one): I II		2	) ×	V (Custom) Ow Ow LE	Matrix Key: DW = Drinking Water OW = Groundwater LE = Lenchute LI = Lidnid	OT = Oll St. = Shdge	F363	Storm Water  Surface Water  Solid	Prese None H-SO, HNO,	rvathv a Sula	NaOH (CEI,CO;),ZN ClaHuOi,NiNaz	n Hy
14. Request for Additio	14. Request for Additional Reporting (please check all that apply);  Livia Fax (extra fee after 1st fax) Affia Email (no extra fee)	pply): □via CD	-ROM (ex	tra fee)	. O	16. Sampler(s) (Printed Name and Signature):	inted Name and	Signat	ire):			N	
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Lab Usc Only: Temperature upon receipt in lab = X Samples Transported on ice? Yes	t in lab = / °C  Coe? Ves No N/A				17.	sho	y (Signature):		Date/Time	<u> </u>	8. Received by (Signature):	inature):	Date/Time
PCA Project Manager: Method of Shipment:	PCA Personnel [PClient Personnel		□ UPS □	] FedEx	l	17. Relinquished by (Signature):	by (Signature):		Date/Time	-	18. Received by (Signature):	insture);	Date/Time



### COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

James S. Gilmore, III Governor

John Paul Woodley, Jr. Secretary of Natural Resources

April 26, 2000

West Central Regional Office

3019 Peters Creek Road, Roanoke, Virginia 24019 Telephone (540) 562-6700, Fax (540) 562-6725 http://www.deq.state.va.us Dennis H. Treacy Director

Thomas L. Henderson Regional Director

Mr. Bruce Jones

Montgomery County PSA P.O. Box 746 Christiansburg, VA 24068

RE:

Shawsville STP - Laboratory Assistance Inspection

Sludge Monitoring - Pathogen Reduction

VPDES Permit No. VA0024031

Dear Mr. Jones:

On March 31, 2000, a laboratory assistance inspection was conducted at the above referenced facility. The inspection was conducted by J.D. Scott, Environmental Inspector Senior. The purpose of the inspection was to discuss the alternatives available to the facility regarding pathogen reduction, and the documentation requirements associated with each alternative.

A copy of the memorandum detailing the inspection is attached. If there are any questions regarding the inspection or other issues relating to laboratory operations, please do not hesitate to call Mr. Scott at the West Central Regional Office (540-562-6827).

Sincerely, Samuel Hele

Samuel C. Hale

**Environmental Inspector Supervisor** 

Attachment

Copies:

W.E. Purcell - DEQ-Water/OWPS

J. D. Scott - DEQ-Water/Roanoke

# COMMONWEALTH OF VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER DIVISION - WEST CENTRAL REGIONAL OFFICE

3019 PETERS CREEK ROAD

ROANOKE, VA 24019

### **MEMORANDUM**

SUBJECT: LABORATORY ASSISTANCE INSPECTION

PATHOGEN REDUCTION REQUIREMENTS

CLARIFICATION OF REGULATORY REQUIREMENTS SHAWSVILLE STP - VPDES PERMIT NO. VA0024031

To:

Sam Hale

FROM:

J. D. Scott

DATE:

April 13, 2000

COPIES:

File, Jason Winnington

On March 31, 2000, the writer visited with Mr. Bruce Jones to discuss monitoring requirements of the VPDES Permit for the wastewater plant which approved the current Sludge Management Plan for Land Application. Issues regarding the documentation of pathogen reduction requirements for land application of Class B sludge from facilities utilizing Option #1 (aerobic digestion), under Alternative #2 - Processes that Significantly Reduce Pathogens were discussed. When this option is selected, documentation demonstrating the time-temperature requirements [MCRT of 40 days at 20° Celsius or 60 days at 15° Celsius] must be available. The facilities in this region utilizing aerobic digestion have been unable to adequately demonstrate that they are capable of meeting these regulatory time-temperature requirements. Therefore, these facilities can best demonstrate pathogen reduction compliance by utilizing Alternative #1, which measures fecal density (the ceiling is 2,000,000 MPN or CFU per gram).

The sludge generated by three wastewater treatment facilities owned by the Montgomery County PSA is all regulated under the Shawsville VPDES permit, which also approved the Sludge Management Plan. Sludge from the digestor at each facility is dewatered on-site with the aid of a portable belt press, then taken to the Shawsville STP, to a covered "blending" facility. After blending, the dewatered sludge from the three facilities can be stored until use (land applied). Prior to use, as described in the regulations, the sludge "batch" can then be sampled in accordance with Part IA of the VPDES Permit. The sampling frequency, based on volume generated (production) from all three facilities combined, is once per year, with the exception of percent solids, which must be analyzed at each land application event (PAN values are calculated). These issues are explained in the Statement of Basis of the Shawsville STP. In the SOB, it is clearly noted that the fecal density (Alternative #1) results will adequately demonstrate compliance with pathogen reduction. At this time, Specific Oxygen Uptake Rates (SOURs) remain as the option to demonstrate vector attraction reduction.



PCA Order No.:

418676

Client:

Montgomery County Public Service Authority

Project:

Riner STP

Sample Number: 418676-01

Date Collected: Time Collected: 4/9/2008 10:00

Description:

Plant Outfall 001

**Final Report** 

Report Date: 4/18/2008

Matrix:

Wastewater

Sample Type: Grab

Analysis Copper, Dissolved	<u>Result</u> 0.012	Reporting Limit 0.005	<u>Units</u> mg/L	Date Analyzed 4/15/2008	Time Analyzed 09:00	<u>Analyst</u> CDM	Method EPA 200.7
Silver, Dissolved	< 0.002	0.002	mg/L	4/15/2008	09:00	CDM	EPA 200.7

RECEIVED

MAY 0 9 2008



# Analytical Request and Chain of Custody Form

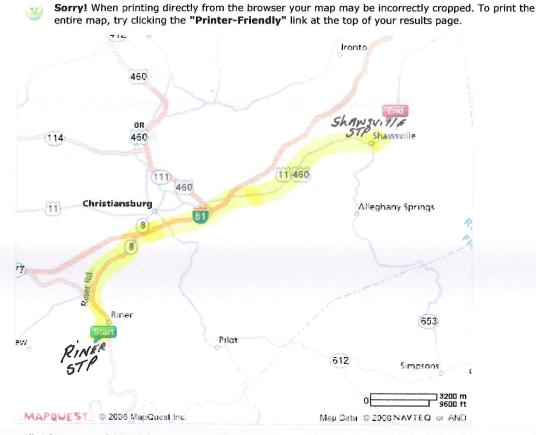
Please Print. See Chain of Custody Instructions for additional help with corre

PCA Order No.: 418-676 Page of

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Shawsville STP is also owned and operated by Montgomery County Public Service Authority, therefore all Riner STP operational and test data is available to Shawsville STP personnel.

Sludge generated at Riner STP is dried on the belt press, and is transported to the receiving facility by dump truck, if the sludge passes a paint filter test.



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4300 Riffe St Elliston, VA 24087-4356, US

Total Est. Time: 22 minutes

Total Est. Distance: 17.26 miles

Maneuvers	Distance
1: Start out going NORTH on RINER RD / VA-8 N toward FIVE POINTS RD. Continue to follow VA-8 N.	4.8 miles
2: Merge onto I-81 N.	2.2 miles
3: Take EXIT 118A-B-C toward US-11 / CHRISTIANSBURG / US-460 / BLACKSBURG.	1.5 miles
4: Take the US-11 / US-460 E exit- EXIT 118C- toward US-460-BR / SHAWSVILLE / ELLISTON.	0.3 miles
5: Turn RIGHT onto US-11 N / US-460 E / ROANOKE ST. Continue to follow US-11 N / US-460 E.	v 7.7 miles
6: Turn LEFT onto RIFFE ST.	0.4 miles
7: End at 4300 Riffe St Elliston, VA 24087-4356, US	
Total Est. Time: 22 minutes Total Est. Distance: 17.26 miles	

RINER S.T.P. MONTH\_ MONTHLY OPERATIONS REPORT

MAY n 9 2008

		VOLAT	ILE SOLI	)S ma/l				SLUDG	E AGE	MAY N S	RATIO
	SOUTH	NORTH	SOUTH	NORTH	RETURN	TEN	IP. oC	SOUTH	W	SOUTHV	
DAY	AER.	AER	DIG.	DIG.	SLUDGE	RAW	FINAL	AER.	AER.	AER.	AER.
1	7	7.2.1	2.0.	210.	020002	14	14	712111	712111	712111	712111
2						14.9	15.7				
3		2615			3470	14.1	14.9		27		0.029
4						14.7	15.9				0.020
5						13.3	13.6				
6						11	12.6				
7						10.3	10.7				
8				. down Li		9.9	9.3				
9						9.9	9.6				
10		3005			3795	10.9	10		47		0.022
11						11.4	10.8				
12						11.7	10.8				
13						11.9	11				
14						12.2	11.8				
15						11.4	12.3				
16						10.8	11				
17		3010			4950	11.2	11.2		41		0.024
18						11.6	11.8				
19						12.2	12.7				
20						12.4	13				
21						13.5	12				
22						13.3	13				
23						13.9	14.7				=
24		2640			10470	14.8	15.9		40		0.031
25						15.8	16.8				
26						15.4	16.8				
27						16	17.5				
28						15	16.8				
29						14.5	16.1				
30						14.4	16.4				
31											
TOTAL	0	11270	0	0	22685	386.4	398.7	0	154	0.000	0.105
AVG.	ERR	2818	ERR	ERR	5671	13	13	ERR	39	ERR	0.026

RINER S.T.P. MONTH\_ MONTHLY OPERATIONS REPORT

2007

MAY 0 9 2008

		VOLAT	ILE SOLI	OS mg/L				SLUDO	SE AGE	FMQ	RATIONO
	SOUTH	NORTH	SOUTH	NORTH	RETURN	TE	MP. oC	SOUTH	NORTH	SOUTH	NORTH
DAY	AER.	AER	DIG.	DIG.	SLUDGE	RAW	FINAL	AER.	AER.	AER.	AER.
1		2130			5750	16	17.3		26		0.055
2						16.3	18.1				
3						16.2	17.7				
4						14.9	15.9				
5						14.5	15.7				
6						14.2	15.4				
7						13.4	14.8				
8		1975			5640	15	15.6		12		0.069
9						16.2	16.5				
10						16.4	17				
11						17.7	18.8				
12						18.2	19				
13		18				16.9	19				
14						14.8	17.8				
15		1925	i		4270	17.2	18.6		24		0.047
16						17.4	18.9				
17						16.2	17.5				
18	· ·					15.2	17.6				
19						14.6	15.6				
20						14.9	16.1				
21						16.1	17.3				
22		1875			2775	17.4	18.1		24		0.044
23						18.1					
24						17.3	18.9	1			
25						17.1	19.3				
26						18.5	19				
27						19.3	21				
28						18.9	21				
29		1780			4275	18.6	20.8		10		0.075
30						18.7	21.1				0.010
31						18.7	21.2				
OTAL	0	9685	0	0	22710	514.9	559.7	0	96	0.000	0.291
AVG.	ERR	1937	ERR	ERR	4542	17	18	ERR	19	ERR	0.058

RINER S.T.P. MONTH\_\_ MONTHLY OPERATIONS REPORT

TUNK YEAR 200 MAY 0 9 2008

		VOLAT	ILE SOLI	OS mg/L				SLUDO	SE AGE	FM/F	RATIO
	SOUTH	NORTH	SOUTH	NORTH	RETURN	TEN	IP. oC	SOUTH	NORTH	SOUTH	NORTH
DAY	AER.	AER	DIG.	DIG.	SLUDGE	RAW	FINAL	AER.	AER.	AER.	AER.
1						19	20.9			1.	
2			7			19.2	21	Carlo			
3						18.5	20.4				
4						18.3	20.2				
5		2065			4015	19.1	20.3		14		0.076
6						18.3	20				
7						18.4	20				
8						19.1	20.6				
9						20.2	22.2				
10						19.3	21.5				
11						19.9	22.5				
12		1985			2915	19.7	21.5		20		0.014
13						19.4	21.6				
14						19	20.9				
15						18.6	19.7				
16						19.4	20				
17						20	21				
18						19.7	20.8				
19		2385			3270	20.5	21.9		38		0.033
20						20.7	22.3				
21						18.9	21.2				
22						19.2	21.5				
23						19	21.3				
24						20.6	21.9				
25						20.5	21.7				
26		1980			2970	21.3	22.6		16		0.056
27						20.9	23				
28						21.1	23				
29					-	20.8	23.1				
30						21.4	22.8				
31											
TOTAL	0	8415	0	0	13170	590	641.4	0	88	0.000	0.179
AVG.	ERR	2104	ERR	ERR	3293	20	21	ERR	22	ERR	0.045

RINER S.T.P. MONTH July
MONTHLY OPERATIONS REPORT YEAR 2007

RECEIVED

MAY 0 9 2008

	1					T				1 1192	
		I	ILE SOLI						SE AGE	FM / I	RATIO
<b>.</b>	SOUTH	NORTH	SOUTH	NORTH	RETURN		MP. oC	SOUTH	NORTH	1	NORTH
DAY	AER.	AER	DIG.	DIG.	SLUDGE			AER.	AER.	AER.	AER.
1						19.8	21.8				
2	-					19.5	21.3				
3		2260			2235	20.2	21.5		103		0.017
4						19.7	21.7				
5						21.1	22.1				
6						21.5	22.8				
7						21.3	22.9				
8						21.1	23				
9						21.9	23.5				
10		1955			4235	22.4	23.7		14		0.073
11						21.8	23.5				
12						21.1	22.9				
13						20	21.9				
14						20.5	22				
15						21.1	22				
16						21.4	22.5				
17		1760			3150	21.7	22.6		16		0.044
18						21.5	22.7				
19						21.7	22.7				
20						21.4	22.8				
21						20.2	22.1				
22						19.8	21.3				
23						19.3	20.8				
24		1640			2170	19.7	20.4		15		0.058
25						20.1	20.2				
26						20.6	20.6				
27						20.9	21.1				
28						20.6	21.4				
29						20.6	21.8				
30						22	22.8				
31		2005			3945	21.8	22.9		44		0.008
TOTAL	0	9620	0	0	15735	646.3	685.3	0	192	0.000	0.200
AVG.	ERR	1924	ERR	ERR	3147	21	22	ERR	38	ERR	0.040

RINER S.T.P. RINER S.T.P. MONTH August
MONTHLY OPERATIONS REPORT YEAR\_

MAY 0 9 2008

		VOLAT	ILE SOLI	OS mg/L				SLUDO	E AGE	DECEMBE	RATIO
	SOUTH	NORTH	SOUTH	NORTH	RETURN	TEN	MP. oC	SOUTH	NORTH	SOUTH	NORTH
DAY	AER.	AER	DIG.	DIG.	SLUDGE	RAW	FINAL	AER.	AER.	AER.	AER.
11						21.7	22.8				
2						21.4	23.2				
3						21.6	23.1				
4						21.9	23				
5						22.4	24				
6						22.7	23.6				
7		2180			2585	22.3	23.5		27		0.031
8						22.5	23.7				
9						22.3	23.9				
10						23.3	24.2				
11						22.3	24				
12						22.2	23.5				
13						22.3	23.9				
14		2065			3765	21.6	23.1		19		0.041
15						20.9	22.5				
16						21.7	22.9				
17						22.5	23.3				
18						21.9	23.5				
19						21.4	23.1				
20						22.5	23.1				
21		1915			4105	22.5	23.8		20		0.051
22						22.9	23.8				
23						23.4	24				
24						23.5	24.8				
25				Berri I		23.3	25				
26						23.8	25.5				
27						23	24.4				
28		1790			3270	22.6	23.8		22		0.038
29						22.6	23.8				
30						22.5	24.5				
31						22.3	23.5				
TOTAL	0	7950	0	0	13725	693.8	734.8	0	88	0.000	0.161
AVG.	ERR	1988	ERR	ERR	3431	22	24	ERR	22	ERR	0.040

RINER S.T.P. MONTH Sep tember
MONTHLY OPERATIONS REPORT YEAR 2007

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		VOLAT	ILE SOLI	OS mg/L				SLUDO	SE AGE	Q-VHIGH	<b>R</b> TIO
	SOUTH	NORTH	SOUTH	NORTH	RETURN	TE	MP. oC	SOUTH	NORTH	SOUTH	NORTH
DAY	AER.	AER	DIG.	DIG.	SLUDGE	RAW	FINAL	AER.	AER.	AER.	AER.
1						22.3	22.6				
2						21.2	22.5				
3						20.8	22				
4		1815			3525	21.3	22.3		17		0.060
5						21.2	21.9				
6					-7	21.7	22.3				
7						21.6	22.6				
8						21.9	22.7				
9						21.2	22.5				
10						22.4	22.7				
11		2040			3575	22.6	23.5		18		0.054
12						21.2	22.3				
13						20.6	21.5				
14						21.4	22				
15						21.7	21.5				
16						20.3	20				
17						19.7	19.2				
18		1895			2475	19.3	18.9		18		0.047
19						19.5	19.1				
20						19.9	19.4				
21						21.1	20.4				
22						21.3	20.8				
23						21	21.3				
24						21.3	21.6				
25		1845	1-1-1	1.011	3380	20.9	21.1		16		0.062
26						21.4	22				
27						21.4	22.4				
28						21.1	21.1				
29						19.4	20				
30						18.4	18.9				
31											
OTAL	0	7595	0	0	12955	629.1	641.1	0	70	0.000	0.223
AVG.	ERR	1899	ERR	ERR	3239	21	21	ERR	17	ERR	0.056

RINER S.T.P.

MONTHLY OPERATIONS REPORT

		VOLAT	ILE SOLIE	OS mg/L				SLUDG	SE AGE	FM/F	RATIO
DAY	SOUTH	NORTH	SOUTH	NORTH	RETURN	TEN	IP. oC	SOUTH	NORTH	SOUTH	NORTH
DAY	AER.	AER	DIG.	DIG.	SLUDGE	RAW	FINAL	AER.	AER.	AER.	AER.
1						18.1	18.3				
2		2200			3505	18.1	18		20		0.052
3						19.9	19.2				
4						20.9	20.4				
5						21.6	21.7				
6						21.7	22				
7						21.1	21				
8						20.8	21.5				
9		2310			3630	20.9	21.2		30		0.039
10				M		21	21.2				
11						19.4	19.8				
12						18.7	18.3				
13						18.1	16.6				
14						17.3	16.4				
15						17.1	17				
16		2240			4265	18.2	16.9		25		0.037
17						19.1	17.9				
18						20	19.2				
19						20.4	20				
20						18.2	17.7				
21				1 1		17.3	17.3				
22						17	16.5				
23		2290			8270	19.2	18.3		17		0.063
24						19.7	19.6				
25						18.4	18.5				
26						17.4	17.7				
27						17.6	17				
28						16.7	17		37		
29						15.4	15.3				
30		2410			4215	13.6	13.9		62		0.024
31						15	14				
OTAL	0	11450	0	0	23885	577.9	569.4	0	153	0.000	0.215
AVG.	ERR	2290	ERR	ERR	4777	19	18	ERR	31	ERR	0.043

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		VOLAT	ILE SOLI	OS mg/L				SLUDO	SE AGE	FM/I	RATIO
	SOUTH	NORTH	SOUTH	NORTH	RETURN	TEN	MP. oC	SOUTH	NORTH	SOUTH	NORTH
DAY	AER.	AER	DIG.	DIG.	SLUDGE	RAW	FINAL	AER.	AER.	AER.	AER.
1						15	13.9				
2						15.6	14.1				
3						14	13.2				
4				,		14	13.3				
5						14.2	13.7				
6		3015			3585	15	12.7		22		0.038
7						14.4	12.5				
8						12.6	11.4				
9						13.6	11.7				
10						13.1	11.5				
11						12	12.4			a.	
12						13.7	12.1				
13		2780			5715	15	13.5		28	4	0.039
14						15.1	14.3				
15						15.2	14.5				
16						13	13.3				
17						12.9	12				
18						12.2	11				
19				4		13.7	12.4				
20		2540			3390	15	13.7		14		0.057
21						14.7	14.3				
22						15.1	13.9				
23						13	13.5				
24			1,41.			11.3	11.3				
25						11.5	11				
26						13	12.8				
27		3200			5880	13.8	11.8		41		0.026
28						12.3	12				
29						12.2	10.9				
30						12.3	10.3				
31											
OTAL	0	11535	0	0	18570	408.5	379	0	105	0.000	0.160
AVG.	ERR	2884	ERR	ERR	4643	14	13	ERR	26	ERR	0.040

RINER S.T.P. MONTH <u>JLCEMBE</u> MONTHLY OPERATIONS REPORT YEAR <u>L007</u>

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								1		had have had -	WCRO
		VOLAT	ILE SOLII				SLUDGE AGE				RATIO
	SOUTH	NORTH	SOUTH	NORTH	RETURN	TEN	MP. oC	SOUTH	NORTH	SOUTH	NORTH
DAY	AER.	AER	DIG.	DIG.	SLUDGE	RAW	FINAL	AER.	AER.	AER.	AER.
1						12.3	10.9				
2						11.6	11.2				
3						11.9	10.5				
4		2365			2365	11.1	10		16		0.072
5						11.4	9.6				
6						11.8	9.8				
7						11.2	9.6				
8						12.3	9				
9						12.8	11				
10						14.1	13.5				
11		2825			7470	14.1	13.5		25		0.032
12						15.1	14.6				
13						14.5	14.4				
14						13.9	13.8				
15						12.5	12.2				
16						11.5	10.9				
17						9.8	9.7				
18		3615			8285	10.1	8.2		33		0.026
19						10.6	9.2	وتباعيا			0.020
20						10.9	9	4			
21						11.1	9.1				
22						10.3	9.7				
23				الله الله		10.1	10				
24				ERA		10.3	9.4				
25		2785			2705	10.4	9.6		31		0.034
26						10	8.9		- 01		0.034
27						10.6	9.5				
28						10.4	10				
29						10.9	11				
30						10.7	10.8				
31						10.7	10.6				
OTAL	0	11590	0	0	20825	358.8	328.6		106	0.000	0.405
AVG.	ERR	2898	ERR	ERR	5206	12	11	0 ERR	106 27	0.000 ERR	0.165

RINER S.T.P. MONTH\_\_\_ MONTHLY OPERATIONS REPORT

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		VOLAT	ILE SOLI	OS mg/L				SLUDO	SE AGE	DEGMY	RATIO
	SOUTH	NORTH	SOUTH	NORTH	RETURN	TEN	IP. oC	SOUTH	NORTH	SOUTH	NORTH
DAY	AER.	AER	DIG.	DIG.	SLUDGE	RAW	FINAL	AER.	AER.	AER.	AER.
1		3530			3410	10.1	10.3		42		0.019
2	d					8.3	7.1				
3						7.1	7.2				
4						6.3	6.9				
5						7.9	7.1				
6						8.2	8.6				
7						10.3	9.8				
8		2930			3325	11.4	10.1		11		0.092
9				-		12.2	11.8				
10						9.9	10.4				
11						11.7	11.8				
12				2002		8.5	8.3				
13						8.3	8.4				
14						9.2	9				
15		2985			5885	8.5	7.3		11		0.086
16						7.5	8.5				
17						7.2	8				
18						9.6	8.4				
19						7.1	6.5				
20						5	5.5				
21						5.1	6.2				
22		3020	0.		4835	6.9	4.9		21		0.059
23						8.4	7.2				
24						7.1	6.5				
25						5.5	6.5				
26						8.5	7.2				
27						9.2	7.7				
28						8.5	7.9				
29		3975			6205	9.6	7		12		0.063
30						8.4	8.2				
31						6.3	7.1				
OTAL	0	16440	0	0	23660	257.8	247.4	0	97	0.000	0.319
AVG.	ERR	3288	ERR	ERR	4732	8	8	ERR	19	ERR	0.064

RINER S.T.P. MONTH FEBRUARY
MONTHLY OPERATIONS REPORT YEAR 2008

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		VOLAT	ILE SOLI	OS mg/L				SLUDO	SE AGE	FM/I	RATIO
	SOUTH	NORTH	SOUTH	NORTH	RETURN	TEN	IP. oC	SOUTH	NORTH	SOUTH	NORTH
DAY	AER.	AER	DIG.	DIG.	SLUDGE	RAW	FINAL	AER.	AER.	AER.	AER.
1						8.3	8				
2						8.6	8.6				
3			-			8.4	8.5				
4						10	9				
5		4005			3985	11.5	10.6		8		0.094
6						12.1	12				
7						10	12.3				
8						9.4	10.9				
9						8.6	9.5				
10						8	9				
11						6.4	8.5				
12		2635			4810	8.1	8		6		0.101
13						9	8.8				
14						6.9	7.1				
15						9.8	9.2				
16						9.2	9.4				
17						9.7	10				
18						12.2	11.9				
19		3525			4945	9	10.4		17		0.048
20						8.5	9.9				
21						7.9	7.8				
22						8.7	8.6				
23						9.6	9.9				
24						8.6	9.2				
25						9.4	9.2				
26		3415			5085	10.4	9.2		8		0.086
27						8.5	9				
28					. The second	7.2	7.7				
29						7.3	8.3				
30											
31	1										
OTAL	0	13580	0	0	18825	261.3	270.5	0	39	0.000	0.329
AVG.	ERR	3395	ERR	ERR	4706	9	9	ERR	10	ERR	0.082

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RINER S.T.P. MONTH MARC L
MONTHLY OPERATIONS REPORT YEAR\_\_\_\_

		VOLAT	ILE SOLI	OS mg/L				SLUDG	SE AGE	FM/F	RATIO
	SOUTH	NORTH	SOUTH	NORTH	RETURN	TEN	IP. oC	SOUTH	NORTH	SOUTH	NORTH
DAY	AER.	AER	DIG.	DIG.	SLUDGE	RAW	FINAL	AER.	AER.	AER.	AER.
1						8.3	7				
2						8.4	7				
3						10.8	10.2				
4		3415			3060	12.2	12		13		0.088
5						10	11.8				
6						8.9	9.9				
7						10.2	11.5				
8						11.3	11.7				
9						9	9.4				
10						8.1	9.3				
11		3550			7635	10	9.6		10		0.080
12						9.3	10.3				
13						9.8	10.2				
14					4-1	10.3	11.2				
15						10.6	12.1				
16						10.4	12				
17		-1.41				10.2	11.2	-			L
18		3620			3920	10.5	11.2		11		0.056
19						12.4	12.9				
20						10.7	12.5				
21						9.3	12.2				
22						11	11				
23						10.4	11.2				
24						10	11.5				
25		3360			3075	9.3	9.4		17		0.053
26						10.2	11.6				
27						11.8	12				
28						13.5	14				
29						10.6	12.4				
30						10.2	12.1				
31						10.9	12.1				
ΓΟΤΑL	0	13945	0	0	17690	318.6	342.5	0	51	0.000	0.277
AVG.	ERR	3486	ERR	ERR	4423	10	11	ERR	13	ERR	0.069

					411		max
					Mir		
1	1 FLOW	10-May-07	0.02	0.054	NULL	NULL	NULL
1	1 FLOW	10-Jun-07	0.018	0.028	NULL	NULL	NULL
1	1 FLOW	10-Jul- <b>07</b>	0.017	0.038	NULL	NULL	NULL
1	1 FLOW	10-Aug-07	0.016	0.029	NULL	NULL	NULL
- 1	1 FLOW	10-Sep-07	0.018	0.032	NULL	NULL	NULL
1	1 FLOW	10-Oct-07	0.022	0.029	NULL	NULL	NULL
1	1 FLOW	10-Nov-07	0.026	0.076	NULL	NULL	NULL
1	1 FLOW	10-Dec-07	0.021	0.03	NULL	NULL	NULL
1	1 FLOW	10-Jan-08	0.021	0.033	NULL	NULL	NULL
1	1 FLOW	10-Feb-08	0.02	0.036	NULL	NULL	NULL
4	0 DH	40.11 00	NIE II T	NII II I		NO. 11	
1	2 PH	10-Nov-03	NULL	NULL	7.1	NULL	8.02
1	2 PH	10-Dec-03	NULL	NULL	7.2	NULL	7.84
1	2 PH	10-Jan-04	NULL	NULL	6.76	NULL	7.6
1	2 PH	10-Feb-04	NULL	NULL	6.85	NULL	7.36
1	2 PH	10-Mar-04	NULL	NULL	6.65	NULL	7.32
1	2 PH	10-Apr-04	NULL	NULL	6.77	NULL	7.5
1	2 PH	10-May-04	NULL	NULL	6.96	NULL	7.69
1	2 PH	10-Jun-04	NULL	NULL	7.06	NULL	7.72
1	2 PH	10-Jul-04	NULL	NULL	7.34	NULL	8.12
1	2 PH	10-Aug-04	NULL	NULL	7.45	NULL	8.5
1	2 PH	10-Sep-04	NULL	NULL	7.33	NULL	8.17
1	2 PH	10-Oct-04	NULL	NULL	7.09	NULL	7.95
1	2 PH	10-Nov-04	NULL	NULL	7.08	NULL	8.03
1	2 PH	10-Dec-04	NULL	NULL	6.73	NULL	7.8
1	2 PH	10-Jan-05	NULL	NULL	6.98	NULL	7.81
1	2 PH	10-Feb-05	NULL	NULL	6.77	NULL	7.69
1	2 PH	10-Mar-05	NULL	NULL	6.89	NULL	7.92
1	2 PH	10-Apr-05	NULL	NULL	6.95	NULL	8.07
1	2 PH	10-May-05	NULL	NULL	7.14	NULL	7.7
1	2 PH	10-Jun-05	NULL	NULL	7.34	NULL	7.94
1							
	2 PH	10-Jul-05	NULL	NULL	7.08	NULL	8.05
1	2 PH 2 PH	10-Jul-05 10-Aug-05	NULL	NULL	7.08 7.44	NULL	8.23
1	2 PH 2 PH 2 PH	10-Jul-05 10-Aug-05 10-Sep-05	NULL NULL	NULL NULL	7.08 7.44 7.44	NULL NULL	8.23 8.33
	2 PH 2 PH 2 PH 2 PH	10-Jul-05 10-Aug-05 10-Sep-05 10-Oct-05	NULL NULL NULL	NULL NULL NULL	7.08 7.44	NULL	8.23
1	2 PH 2 PH 2 PH 2 PH 2 PH	10-Jul-05 10-Aug-05 10-Sep-05	NULL NULL NULL NULL	NULL NULL	7.08 7.44 7.44 7.19 7.09	NULL NULL	8.23 8.33
1	2 PH 2 PH 2 PH 2 PH 2 PH 2 PH	10-Jul-05 10-Aug-05 10-Sep-05 10-Oct-05 10-Nov-05 10-Dec-05	NULL NULL NULL	NULL NULL NULL	7.08 7.44 7.44 7.19 7.09	NULL NULL NULL	8.23 8.33 7.91 7.66 7.81
1 1 1	2 PH 2 PH 2 PH 2 PH 2 PH 2 PH 2 PH	10-Jul-05 10-Aug-05 10-Sep-05 10-Oct-05 10-Nov-05	NULL NULL NULL NULL	NULL NULL NULL NULL	7.08 7.44 7.44 7.19 7.09	NULL NULL NULL NULL	8.23 8.33 7.91 7.66
1 1 1	2 PH 2 PH 2 PH 2 PH 2 PH 2 PH	10-Jul-05 10-Aug-05 10-Sep-05 10-Oct-05 10-Nov-05 10-Dec-05	NULL NULL NULL NULL NULL	NULL NULL NULL NULL NULL	7.08 7.44 7.44 7.19 7.09	NULL NULL NULL NULL NULL	8.23 8.33 7.91 7.66 7.81
1 1 1	2 PH 2 PH 2 PH 2 PH 2 PH 2 PH 2 PH	10-Jul-05 10-Aug-05 10-Sep-05 10-Oct-05 10-Nov-05 10-Dec-05 10-Jan-06	NULL NULL NULL NULL NULL NULL	NULL NULL NULL NULL NULL NULL	7.08 7.44 7.44 7.19 7.09 7 7.16	NULL NULL NULL NULL NULL NULL	8.23 8.33 7.91 7.66 7.81 7.78
1 1 1	2 PH 2 PH 2 PH 2 PH 2 PH 2 PH 2 PH 2 PH	10-Jul-05 10-Aug-05 10-Sep-05 10-Oct-05 10-Nov-05 10-Dec-05 10-Jan-06 10-Feb-06	NULL NULL NULL NULL NULL NULL NULL	NULL NULL NULL NULL NULL NULL	7.08 7.44 7.44 7.19 7.09 7 7.16 7.13	NULL NULL NULL NULL NULL NULL	8.23 8.33 7.91 7.66 7.81 7.78 7.96
1 1 1	2 PH 2 PH 2 PH 2 PH 2 PH 2 PH 2 PH 2 PH	10-Jul-05 10-Aug-05 10-Sep-05 10-Oct-05 10-Nov-05 10-Dec-05 10-Jan-06 10-Feb-06 10-Mar-06	NULL NULL NULL NULL NULL NULL NULL NULL	NULL NULL NULL NULL NULL NULL NULL NULL	7.08 7.44 7.44 7.19 7.09 7 7.16 7.13 7.16	NULL NULL NULL NULL NULL NULL NULL NULL	8.23 8.33 7.91 7.66 7.81 7.78 7.96 8.03
1 1 1	2 PH 2 PH 2 PH 2 PH 2 PH 2 PH 2 PH 2 PH	10-Jul-05 10-Aug-05 10-Sep-05 10-Oct-05 10-Nov-05 10-Dec-05 10-Jan-06 10-Feb-06 10-Mar-06 10-Apr-06	NULL NULL NULL NULL NULL NULL NULL NULL	NULL NULL NULL NULL NULL NULL NULL NULL	7.08 7.44 7.44 7.19 7.09 7 7.16 7.13 7.16 6.73	NULL NULL NULL NULL NULL NULL NULL NULL	8.23 8.33 7.91 7.66 7.81 7.78 7.96 8.03 7.8
1 1 1	2 PH 2 PH 2 PH 2 PH 2 PH 2 PH 2 PH 2 PH	10-Jul-05 10-Aug-05 10-Sep-05 10-Oct-05 10-Nov-05 10-Dec-05 10-Jan-06 10-Feb-06 10-Mar-06 10-Apr-06	NULL NULL NULL NULL NULL NULL NULL NULL	NULL NULL NULL NULL NULL NULL NULL NULL	7.08 7.44 7.44 7.19 7.09 7 7.16 7.13 7.16 6.73 7.06	NULL NULL NULL NULL NULL NULL NULL NULL	8.23 8.33 7.91 7.66 7.81 7.78 7.96 8.03 7.8 8.09
1 1 1	2 PH 2 PH 2 PH 2 PH 2 PH 2 PH 2 PH 2 PH	10-Jul-05 10-Aug-05 10-Sep-05 10-Oct-05 10-Nov-05 10-Dec-05 10-Jan-06 10-Feb-06 10-Mar-06 10-Apr-06 10-May-06 10-Jun-06	NULL NULL NULL NULL NULL NULL NULL NULL	NULL NULL NULL NULL NULL NULL NULL NULL	7.08 7.44 7.44 7.19 7.09 7 7.16 7.13 7.16 6.73 7.06 7.02	NULL NULL NULL NULL NULL NULL NULL NULL	8.23 8.33 7.91 7.66 7.81 7.78 7.96 8.03 7.8 8.09 7.04
1 1 1	2 PH 2 PH 2 PH 2 PH 2 PH 2 PH 2 PH 2 PH	10-Jul-05 10-Aug-05 10-Sep-05 10-Oct-05 10-Nov-05 10-Dec-05 10-Jan-06 10-Feb-06 10-Mar-06 10-Apr-06 10-Jun-06 10-Jul-06	NULL NULL NULL NULL NULL NULL NULL NULL	NULL NULL NULL NULL NULL NULL NULL NULL	7.08 7.44 7.44 7.19 7.09 7 7.16 7.13 7.16 6.73 7.06 7.02 7.29	NULL NULL NULL NULL NULL NULL NULL NULL	8.23 8.33 7.91 7.66 7.81 7.78 7.96 8.03 7.8 8.09 7.04 8.13
1 1 1	2 PH 2 PH 2 PH 2 PH 2 PH 2 PH 2 PH 2 PH	10-Jul-05 10-Aug-05 10-Sep-05 10-Oct-05 10-Nov-05 10-Dec-05 10-Jan-06 10-Feb-06 10-Mar-06 10-Apr-06 10-Jun-06 10-Jul-06 10-Aug-06	NULL NULL NULL NULL NULL NULL NULL NULL	NULL NULL NULL NULL NULL NULL NULL NULL	7.08 7.44 7.44 7.19 7.09 7 7.16 7.13 7.16 6.73 7.06 7.02 7.29 7.43	NULL NULL NULL NULL NULL NULL NULL NULL	8.23 8.33 7.91 7.66 7.81 7.78 7.96 8.03 7.8 8.09 7.04 8.13 8.31
1 1 1	2 PH	10-Jul-05 10-Aug-05 10-Sep-05 10-Oct-05 10-Nov-05 10-Dec-05 10-Jan-06 10-Mar-06 10-May-06 10-Jun-06 10-Jul-06 10-Jul-06 10-Aug-06 10-Sep-06	NULL NULL NULL NULL NULL NULL NULL NULL	NULL NULL NULL NULL NULL NULL NULL NULL	7.08 7.44 7.44 7.19 7.09 7 7.16 7.13 7.16 6.73 7.06 7.02 7.29 7.43 7.34 6.84	NULL NULL NULL NULL NULL NULL NULL NULL	8.23 8.33 7.91 7.66 7.81 7.78 7.96 8.03 7.8 8.09 7.04 8.13 8.31 7.76
1 1 1	2 PH	10-Jul-05 10-Aug-05 10-Sep-05 10-Oct-05 10-Nov-05 10-Dec-05 10-Jan-06 10-Feb-06 10-Mar-06 10-Apr-06 10-Jul-06 10-Jul-06 10-Aug-06 10-Sep-06 10-Oct-06	NULL NULL NULL NULL NULL NULL NULL NULL	NULL NULL NULL NULL NULL NULL NULL NULL	7.08 7.44 7.44 7.19 7.09 7 7.16 7.13 7.16 6.73 7.06 7.02 7.29 7.43 7.34	NULL NULL NULL NULL NULL NULL NULL NULL	8.23 8.33 7.91 7.66 7.81 7.78 7.96 8.03 7.8 8.09 7.04 8.13 8.31 7.76 7.8
1 1 1	2 PH	10-Jul-05 10-Aug-05 10-Sep-05 10-Oct-05 10-Nov-05 10-Dec-05 10-Jan-06 10-Mar-06 10-May-06 10-Jul-06 10-Jul-06 10-Aug-06 10-Sep-06 10-Oct-06 10-Nov-06	NULL NULL NULL NULL NULL NULL NULL NULL	NULL NULL NULL NULL NULL NULL NULL NULL	7.08 7.44 7.49 7.09 7 7.16 7.13 7.16 6.73 7.06 7.02 7.29 7.43 7.34 6.84 6.9 7	NULL NULL NULL NULL NULL NULL NULL NULL	8.23 8.33 7.91 7.66 7.81 7.78 7.96 8.03 7.8 8.09 7.04 8.13 8.31 7.76 7.8 7.6 7.5
1 1 1	2 PH	10-Jul-05 10-Aug-05 10-Sep-05 10-Oct-05 10-Nov-05 10-Dec-05 10-Jan-06 10-Feb-06 10-May-06 10-Jul-06 10-Jul-06 10-Aug-06 10-Sep-06 10-Oct-06 10-Dec-06 10-Dec-06	NULL NULL NULL NULL NULL NULL NULL NULL	NULL NULL NULL NULL NULL NULL NULL NULL	7.08 7.44 7.44 7.19 7.09 7 7.16 7.13 7.16 6.73 7.06 7.02 7.29 7.43 7.34 6.84 6.9 7 7.2	NULL NULL NULL NULL NULL NULL NULL NULL	8.23 8.33 7.91 7.66 7.81 7.78 7.96 8.03 7.8 8.09 7.04 8.13 8.31 7.76 7.8 7.6 7.5 7.8
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 PH	10-Jul-05 10-Aug-05 10-Sep-05 10-Oct-05 10-Nov-05 10-Dec-05 10-Jan-06 10-Mar-06 10-May-06 10-Jul-06 10-Jul-06 10-Aug-06 10-Sep-06 10-Oct-06 10-Nov-06	NULL NULL NULL NULL NULL NULL NULL NULL	NULL NULL NULL NULL NULL NULL NULL NULL	7.08 7.44 7.49 7.09 7 7.16 7.13 7.16 6.73 7.06 7.02 7.29 7.43 7.34 6.84 6.9 7	NULL NULL NULL NULL NULL NULL NULL NULL	8.23 8.33 7.91 7.66 7.81 7.78 7.96 8.03 7.8 8.09 7.04 8.13 8.31 7.76 7.8 7.6 7.5

					. ~-		4	<b>4</b>
			AVI	Max	WI		ma	-
1	2 PH	10-Apr-07	NULL	NULL	6.9	NULL	7.5	
<b>1</b>	2 PH	10-May-07	NULL	NULL	6.9	NULL	7.5	
1	2 PH	10-Jun-07	NULL	NULL	7.1	NULL	7.5	
1	2 PH	10-Jul-07	NULL	NULL	7.1	NULL	7.5	
1	2 PH	10-Aug-07	NULL	NULL	7.2	NULL	7.5	
<b>I</b> 1	2 PH	10-Sep-07	NULL	NULL	7	NULL	7.6	
<b>1</b>	2 PH	10-Oct-07	NULL	NULL	7	NULL	7.4	
1	2 PH	10-Nov-07	NULL	NULL	6.9	NULL	7.4	
1	2 PH	10-Dec-07	NULL	NULL	7	NULL	7.5	
1	2 PH	10-Jan-08	NULL	NULL	6.9	NULL	7.5	
1	2 PH	10-Feb-08	NULL	NULL	6.8	NULL	7.3	
1	68 TKN (N-KJEL)	10-Nov-03	0.14	0.22	NULL	1.4	3	
1	68 TKN (N-KJEL)	10-Dec-03	0.05	0.2	NULL	0.8	3	
1.1	68 TKN (N-KJEL)	10-Jan-04	0.021	0.19	NULL	0.8	3	
1	68 TKN (N-KJEL)	10-Feb-04	0.1	0.11	NULL	2	3	
1	68 TKN (N-KJEL)	10-Mar-04	0.14	0.24	NULL	1.3	2	
1	68 TKN (N-KJEL)	10-Apr-04	0.12	0.12	NULL	1.2	1	
1	68 TKN (N-KJEL)	10-May-04	0.09	0.14	NULL	1.3	2	
1	68 TKN (N-KJEL)	10-Jun-04	0.13	0.22	NULL	2	3	
1	68 TKN (N-KJEL)	10-Jul-04	0.02	0.05	NULL	0.4	1	
1	68 TKN (N-KJEL)	10-Aug-04	0.06	0.16	NULL	1.3	4	
1	68 TKN (N-KJEL)	10-Sep-04	0.049	0.06	NULL	0.4	1	
1	68 TKN (N-KJEL)	10-Oct-04	1.18	<ql< td=""><td>NULL</td><td>1.3</td><td><ql< td=""><td></td></ql<></td></ql<>	NULL	1.3	<ql< td=""><td></td></ql<>	
	68 TKN (N-KJEL)	10-Nov-04	<ql< td=""><td><ql< td=""><td>NULL</td><td><ql< td=""><td><ql< td=""><td></td></ql<></td></ql<></td></ql<></td></ql<>	<ql< td=""><td>NULL</td><td><ql< td=""><td><ql< td=""><td></td></ql<></td></ql<></td></ql<>	NULL	<ql< td=""><td><ql< td=""><td></td></ql<></td></ql<>	<ql< td=""><td></td></ql<>	
1	68 TKN (N-KJEL)	10-Dec-04	0.082	0.19	NULL	1	2	
1	68 TKN (N-KJEL)	10-Jan-05	0.08	0.11	NULL	1	2	
1	68 TKN (N-KJEL)	10-Feb-05	0.078	0.091	NULL	1.3	2	
1	68 TKN (N-KJEL)	10-Mar-05	0.34	0.64	NULL	4.5	7	
1	68 TKN (N-KJEL)	10-Apr-05	0.36	0.91	NULL	3.8	4	
1	68 TKN (N-KJEL)	10-May-05	0.12	0.17	NULL	1.8	2	
1	68 TKN (N-KJEL)	10-Jun-05	0.05	0.11	NULL	0.8	2	
1	68 TKN (N-KJEL)	10-Jul-05	0.02	0.06	NULL	0.3	1	
1	68 TKN (N-KJEL)	10-Aug-05	0.06	0.12	NULL	0.9	1.7	
1	68 TKN (N-KJEL)	10-Sep-05	0.02	0.06	NULL	0.3	0.8	
1	68 TKN (N-KJEL)	10-Oct-05	0.1	0.17	NULL	1.07	1.15	
1	68 TKN (N-KJEL)	10-Nov-05	0.12	0.12	NULL	1.4	1.6	
1	68 TKN (N-KJEL)	10-Dec-05	0.13	0.2	NULL	1.2	1.6	
1	68 TKN (N-KJEL)	10-Jan-06	0.05	0.08	NULL	0.7	1.2	
1	68 TKN (N-KJEL)	10-Feb-06	0.09	0.16	NULL	0.9	1.2	
1	68 TKN (N-KJEL)	10-Mar-06	0.09	0.1	NULL	1.3	1.4	
1	68 TKN (N-KJEL)	10-Apr-06	0.08	0.12	NULL	1.3	1.7	
1	68 TKN (N-KJEL)	10-May-06	0.06	0.07	NULL	0.8	0.91	
1	68 TKN (N-KJEL)	10-Jun-06	0.07	0.09	NULL	1.2	1.6	
1	68 TKN (N-KJEL)	10-Jul-06	0.11	0.06	NULL	0.9	1.05	
1	68 TKN (N-KJEL)	10-Aug-06	0.06	0.07	NULL	0.9	1.07	
1	68 TKN (N-KJEL)	10-Sep-06	0.07	0.08	NULL	1.1	1.19	
1	68 TKN (N-KJEL)	10-Oct-06	0.05	0.12	NULL	0.7	1.63	
1	68 TKN (N-KJEL)	10-Nov-06	0.1	0	NULL	0.6	0	
1	68 TKN (N-KJEL)	10-Dec-06	0.1	0.2	NULL	1.3	2.1	
1	68 TKN (N-KJEL)	10-Jan-07	0.1	0.2	NULL	1.4	2.4	
1	68 TKN (N-KJEL)	10-Feb-07	0.1	0.1	NULL	1.4	1.3	



### Certificate of Analysis

### PCA Order No. 418676

### **Final Report**

Prepared for:

Mr. Bruce Jones

Montgomery County Public Service Authority

755 Roanoke Street

Suite 21

Christiansburg, VA 24073

RECEIVED

MAY 0 9 2008

DEQ-WCRO

Report Date:

April 18, 2008

Date Received:

April 11, 2008

Project:

Riner STP

Comments:

Analytical data are presented on the following pages of this report. If you have any questions or need further assistance, please feel free to contact your project manager at (540) 268-9884.

Respectfully Submitted by:

Reviewed and Approved by:

Chérýl M. Daniel

QA/QC Manager

Unless otherwise indicated, all analyses were conducted according to Standard Methods for the Examination of Water and Wastewater, 18th Edition, Test Methods for Evaluation Solid Waste (Physical/Chemical), 3rd Edition, and Methods for the Chemical Analysis of Water and Wastes, EPA.

This report sets forth the results of our analysis of samples delivered to our laboratory and shall not be construed to be a representation by ProChem Analytical Incorporated as to the source or method of procuring such samples. All reports are submitted as the confidential property of clients and authorization for publication of any statements contained in our reports is reserved pending our written consent.



## MONTGOMERY COUNTY PUBLIC SERVICE AUTHORITY

Government Center
Suite 2I
755 Roanoke Street
Christiansburg, VA 24073-3185

May 8, 2008

James D. Politis, Chair
Gary Creed, Vice-Chair
Mary W. Biggs, Secretary-Treasurer
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Douglas W. Marrs, Member

Robert C. Fronk, PE PSA Director

Becky L. France Environmental Engineer Senior Virginia Department of Environmental Quality 3019 Peters Creek Road Roanoke, VA 24019



RE: Additional Data Requested –
Riner STP VPDES Permit Application
Permit No. VA0024040

Dear Ms. France:

Please find enclosed the information and forms which you requested in your letter to me, dated April 2, 2008. Included are the signed and dated form 2A (page 9) and the signed and dated Sewage Sludge Application (page 4). I have also included one year's temperature data for Riner STP covering the time period April 2007 to March 2008. Also, I have included the requested Ph data which was taken from the data sheets which you had previously sent me. I used thirty-six months data from March 2005 through February 2008. The final items included are the results from additional copper and silver analysis which you had requested. I had previously given you a copy when you did your walk through at the Riner plant on April 25, 2008.

I hope these items will satisfy the requirements for the Riner permit application. Should you require more information please call me at (540)268-5143.

Sincerely,

Bruce R. Jones

Wastewater Supervisor